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1.4614 pb 3.1.7

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1.4615 libx11 2:1.7.5-1ubuntu0.3

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Data model artifacts for Prometheus.

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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tomb - support for clean goroutine termination in Go.

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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process
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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.4624 wheel 0.45.1

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1.4630 codegangsta-cli 2.27.7

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1.4631 github.com/grpc-ecosystem/grpc-gateway/v2 2.27.0

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1.4632 go.opentelemetry.io/otel/exporters/otlp/otlptrace 1.36.0

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1.4633 k8s-io-apiserver 0.33.2

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1.4634 fluxcd-pkg-apis-kustomize 1.10.0

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1.4641 component-base 0.33.2

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
```

```
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
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//
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 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.4644 go-strcase 1.3.1

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1.4645 cel.dev/expr 0.24.0

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1.4646 fluxcd-helm-controller-api 1.3.0

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
```

in the Corefile
 SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
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==========

The common/types/pb/equal.go modification of proto.Equal logic
==========
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//
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 URL  string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.4652 google-golang-org-genproto 0.0.0-20250603155806-513f23925822

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1.4658 libxtst 2:1.2.3-1build4

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1.4659 prometheus-pushgateway 1.11.1

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1.4660 github.com/prometheus/pushgateway 1.11.1

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The original XML Schemas for Java EE Deployment Descriptors:
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd

- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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may be obtained from:
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* /tomcat-jsp-api-9-0-105-sources-jar/javax/servlet/jsp/tagext/TagInfo.java
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* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/SecretKeyCallback.java
*
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*
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* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/CertStoreCallback.java
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* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/MessagePolicy.java
* /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/AuthStatus.java
*
 /tomcat-jaspic-api-9-0-105-sources-jar/javax/security/auth/message/module/ClientAuthModule.java

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BSON library for Go

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1.4689 go-redis 6.15.9+incompatible

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* /gae-mini-profiler-1-1-1-sources-4-jar/ca/jimr/gae/profiler/MiniProfilerServlet.java
* /gae-mini-profiler-1-1-1-sources-4-jar/com/google/appengine/tools/appstats/MiniProfilerAppstats.java
* /gae-mini-profiler-1-1-1-sources-4-jar/ca/jimr/gae/profiler/MiniProfilerFilter.java

1.4691 pythonurllib 1.26.5-1~exp1ubuntu0.3

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Contributions to the urllib3 project

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* Andrey Petrov <andrey.petrov@shazow.net>

Contributors

In chronological order:

* victor.vde <http://code.google.com/u/victor.vde/>
 * HTTPS patch (which inspired HTTPSConnectionPool)

* erikcederstrand <http://code.google.com/u/erikcederstrand/>
 * NTLM-authenticated HTTPSConnectionPool
 * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

* niphlod <niphlod@gmail.com>
 * Client-verified SSL certificates for HTTPSConnectionPool
 * Response gzip and deflate encoding support
 * Better unicode support for filepost using StringIO buffers

* btoconnor <brian@btoconnor.net>

* Non-multipart encoding for POST requests

* p.dobrogost <http://code.google.com/u/@WBRSRlBZDhBFXQB6/>
* Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
* Bugfixes, suggestions, Requests integration

* georgemarshall <https://github.com/georgemarshall>
* Bugfixes, Improvements and Test
coverage

* Thomas Kluyver <thomas@kluyver.me.uk>
* Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

* studer <theo.studer@gmail.com>
* IPv6 url support and test coverage

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* Corrected multipart behavior for params

* Thomas Weischuh <thomas@t-8ch.de>
* Support for TLS SNI
* API unification of ssl_version/cert_reqs
* SSL fingerprint and alternative hostname verification
* Bugfixes in testsuite

* Sune Kirkeby <mig@ibofobi.dk>
* Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich <marc.schlaich@gmail.com>
* Various bugfixes and test improvements.

* Bryce Boe <bbzbryce@gmail.com>
* Correct six.moves conflict
* Fixed pickle support of some exceptions

* Boris Figovsky <boris.figovsky@ravellosystems.com>
* Allowed to skip SSL hostname verification

* Cory Benfield

<https://lukasa.co.uk/about/>
* Stream method for Response objects.
* Return native strings in header values.
* Generate 'Host' header when using proxies.

* Jason Robinson <jaywink@basshero.org>
* Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
* Fixed a race condition

* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
* Added HTTPS (CONNECT) proxy support

* Stephen Holsapple <sholsapp@gmail.com>
* Added abstraction for granular control of request fields

* Martin von Gagern <Martin.vGagern@gmx.net>
* Support for non-ASCII header parameters

* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
* Support for separate connect and request timeouts

* Peter Waller <p@pwaller.net>
* HTTPResponse.tell() for determining amount received over the wire

* Nipunn Koorapati <nipunn1313@gmail.com>
* Ignore default ports when comparing hosts for equality

* Danilo @dbrgn <https://dbrgn.ch/>
* Disabled TLS compression by default on Python 3.2+
* Disabled TLS compression in pyopenssl contrib module
* Configurable cipher suites in pyopenssl contrib module

* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
* Account retries on proxy errors

* Nicolas Delaby <nicolas.delaby@ezeep.com>
* Use the platform-specific CA certificate locations

* Josh Schneier <https://github.com/jschneier>
* HTTPHeaderDict and associated tests and docs
* Bugfixes, docs, test coverage

* Tahia Khan <http://tahia.tk/>
* Added Timeout examples in docs

* Arthur Grunseid <https://grunseid.com>

* source_address support and tests (with https://github.com/bui)

* Ian Cordasco <graffatcolmingov@gmail.com>
* PEP8 Compliance and Linting
* Add ability to pass socket options to an HTTP Connection

* Erik Tollerud <erik.tollerud@gmail.com>
* Support for standard library io module.

* Krishna Prasad <kprasad.iitd@gmail.com>
* Google App Engine documentation

* Aaron Meurer
<asmeurer@gmail.com>
* Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
* Bugfixes

* Benjamen Meyer <bm_witness@yahoo.com>
* Security Warning Documentation update for proper capture

* Shivan Sornarajah <github@sornars.com>
* Support for using ConnectionPool and PoolManager as context managers.

* Alex Gaynor <alex.gaynor@gmail.com>
* Updates to the default SSL configuration

* Tomas Tomecek <ttomecek@redhat.com>
* Implemented generator for getting chunks from chunked responses.

* tlynn <https://github.com/tlynn>
* Respect the warning preferences at import.

* David D. Riddle <ddriddle@illinois.edu>
* IPv6 bugfixes in testsuite

* Thea Flowers <magicalgirl@google.com>
* App Engine environment tests.
* Documentation re-write.

* John Krauss <https://github.com/talos>
* Clues to debugging problems with `cryptography` dependency in docs

* Disassem <https://github.com/Disassem>
* Fix pool-default headers not applying for url-encoded
requests like GET.

* James Atherfold <jlatherfold@hotmail.com>
 * Bugfixes relating to cleanup of connections during errors.

* Christian Pedersen <https://github.com/chripede>
 * IPv6 HTTPS proxy bugfix

* Jordan Moldow <https://github.com/jmoldow>
 * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

* Predrag Gruevski <https://github.com/obi1kenobi>
 * Made cert digest comparison use a constant-time algorithm.

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

* John Vandenberg <jayvdb@gmail.com>
 * Python 2.6 fixes; pyflakes and pep8 compliance

* Andy Caldwell <andy.m.caldwell@googlemail.com>
 * Bugfix related to reusing connections in indeterminate states.

* Ville Skytt <ville.skytta@iki.fi>
 * Logging efficiency
 improvements, spelling fixes, Travis config.

* Shige Takeda <smtakeda@gmail.com>
 * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

* Jess Shapiro <jesse@jesseshapiro.net>
 * Various character-encoding fixes/tweaks
 * Disabling IPv6 DNS when IPv6 connections not supported

* David Foster <http://dafoster.net/>
 * Ensure order of request and response headers are preserved.

* Jeremy Cline <jeremy@jcline.org>
 * Added connection pool keys by scheme

* Aviv Palivoda <palaviv@gmail.com>
 * History list to Retry object.
 * HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>

* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in ``stream`` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

* Alexandre Dias <alex.dias@smarkets.com>
* Don't retry on timeout if method not in whitelist

* Moinuddin Quadri <moin18@gmail.com>
* Lazily load idna package

* Tom White <s6yg1ez3@mail2tor.com>
* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

* Tim Burke <tim.burke@gmail.com>
* Stop buffering entire deflate-encoded responses.

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.

* Erik Rose <erik@mozilla.com>
* Bugfix to pyopenssl vendoring

* Wolfgang Richter <wolfgang.richter@gmail.com>
* Bugfix related to loading full certificate chains with PyOpenSSL backend.

* Mike Miller <github@mikeage.net>
* Logging improvements to include the HTTP(S) port when opening a new connection

* Ioannis Tziakos <mail@itziakos.gr>
* Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
* Update appveyor tox setup to use the 64bit python.

* Akamai
(through Jess Shapiro) <jshapiro@akamai.com>
* Ongoing maintenance; 2017-2018

* Dominique Leuenberger <dimstar@opensuse.org>
* Minor fixes in the test suite

* Will Bond <will@wbond.net>
* Add Python 2.6 support to ``contrib.securetransport``

* Aleksei Alekseev <alekseev.yeskela@gmail.com>
* using auth info for socks proxy

* Chris Wilcox <git@crwilcox.com>
 * Improve contribution guide
 * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
 * Fix leaking exceptions when system calls are interrupted with zero timeout

* Hugo van Kemenade <https://github.com/hugovk>
 * Drop support for EOL Python 2.6

* Tim Bell <https://github.com/timb07>
 * Bugfix for responses with Content-Type: message/* logging warnings

* Justin Bramley <https://github.com/jbramleycl>
 * Add ability to handle multiple Content-Encodings

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
 * Remove Authorization header
 regardless of case when redirecting to cross-site

* James Meickle <https://permadeath.com/>
 * Improve handling of Retry-After header

* Chris Jerdonek <chris.jerdonek@gmail.com>
 * Remove a spurious TypeError from the exception chain inside
   HTTPConnectionPool._make_request(), also for BaseExceptions.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
 * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
 * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
 * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
 * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
 * Test improvements

* Chris Olufson <tycarac@gmail.com>
 * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
 * Support for logging session keys

via environment variable ``SSLKEYLOGFILE`` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
* Ports and extends on types from typeshed

* [Your name or handle] <[email or website]>
* [Brief summary of your changes]
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes

2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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1.4702 pyvmomi 9.0.0.0

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class VramLimitLicense(NotEnoughLicenses):
  limit: int
pyVmomi
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```
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class NotEnoughLicenses(RuntimeFault):
  pass
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from pyVmomi.vim.fault import ExpiredFeatureLicense

class ExpiredEditionLicense(ExpiredFeatureLicense):
  pass
```

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class VmLimitLicense(NotEnoughLicenses):
  limit: int
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class ExpiredAddonLicense(ExpiredFeatureLicense):
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1.4703 libnpmteam 8.0.1

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Many improvements to the libsensors configuration file scanner.
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1.4714 libxcrypt 1:4.4.27-1

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1.4716 bash-completion 1:2.11-8

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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*/
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Theodore Ts'o
23-June-2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
 @echo " MKDIR pic"
 @mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:  $(BSD_LIB)

$(BSD_LIB): $(OBJS)
 (cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
 $(MV) pic/$(BSD_LIB) .
 $(RM) -f ../$(BSD_LIB)
```

```
 (cd ..; $(LN) $(LINK_BUILD_FLAGS) \
  `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
 @-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
 $(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
 $(RM)
 -rf pic
 $(RM) -f $(BSD_LIB)
 $(RM) -f ../$(BSD_LIB)
```

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*/

1.4723 libxext 2:1.3.4-1build1

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1.4724 libxmu 2:1.1.3-3

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1.4728 libxau 1:1.0.9-1build5

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1.4729 libxcrypt 1:4.4.33-2

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1.4730 ethtool 1:5.16-1ubuntu0.2

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package compute_test
```

```
import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
 resp, err := it.Next()
 if err == iterator.Done {
  break
 }
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp

 // If you need to access the underlying RPC response,
 // you can do so by casting the `Response` as below.
 // Otherwise, remove this line. Only populated after
 // first call to Next(). Not safe for concurrent access.
 _ = it.Response.(*computepb.LicensesListResponse)
}
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
```

```
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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```

```
package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
// protoc-gen-go v1.34.2
// protoc v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

```
package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
```

```
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
```

```
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
```

```
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 if protoimpl.UnsafeEnabled {
  mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  ms.StoreMessageInfo(mi)
 }
}

func (x *Permission) String() string {
```

```
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission)
 ProtoReflect() protoreflect.Message {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if protoimpl.UnsafeEnabled && x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role
 != nil {
  return *x.Role
```

```
 }
 return Permission_ROLE_UNSPECIFIED
}

var File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a,
 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67,
 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88, 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a,
 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
```

```
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64,
 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
```

```
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func
 file_google_ai_generativelanguage_v1beta_permission_proto_init() {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 if !protoimpl.UnsafeEnabled {
  file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].Exporter = func(v any, i int) any {
   switch v := v.(*Permission); i {
   case 0:
    return &v.state
   case 1:
    return &v.sizeCache
   case 2:
    return &v.unknownFields
   default:
    return nil
   }
  }
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:
```

```
        file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
 MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook
```

```
// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient
 interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
```

```
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode,
 error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string
```

```
 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
```

```
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds = append(c.xGoogHeaders, hds...)
 hds
 = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
```

```
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return
 nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

hds
= append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if
err != nil {
  return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
```

```
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
```

```
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000
 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
```

```
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy
```

for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use
only by third-party partners who are creating Cloud Marketplace images.

```
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.

```
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client
```

```
 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
```

```
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient
 = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())
```

```
 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "license",
url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf,
 err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()),
 "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err
:= unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and
```

```
 context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp);
 err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
```

```
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId",
 fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient)
 List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
```

```
 req.PageToken = proto.String(pageToken)
}
if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults",
fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
```

```
    return
  err
   }
   defer httpRsp.Body.Close()

   if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
   }

   buf, err := io.ReadAll(httpRsp.Body)
   if err != nil {
    return err
   }

   if err := unm.Unmarshal(buf, resp); err != nil {
    return err
   }

   return nil
  }, opts...)
  if e != nil {
   return nil, "", e
  }
  it.Response = resp
  return resp.GetItems(), resp.GetNextPageToken(), nil
 }

 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only
 by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
```

```
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
```

```
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on
 the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return
nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.4735 free-type 2.11.1+dfsg-1ubuntu0.3

1.4735.1 Available under license :

The FreeType Project LICENSE

2006-Jan-27

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==========

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"""

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o freetype-devel@nongnu.org

Discusses bugs, as well as engine internals, design issues,
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Our home page can be found at

https://www.freetype.org

--- end of FTL.TXT ---
Files that don't get a copyright, or which are taken from elsewhere.
#
All lines in this file are patterns, including the comment lines; this
means that e.g. `FTL.TXT' matches all files that have this string in
the file name (including the path relative to the current directory,
always starting with `./').
#
Don't put empty lines into this file!
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c

src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
subprojects/dlg
#
#
EOF
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The contributed BDF and PCF drivers come with a license similar to that of the X Window System. It is compatible to the above two licenses (see files `src/bdf/README` and `src/pcf/README`). The same holds for the source code files `src/base/fthash.c` and `include/freetype/internal/fthash.h`; they wer part of the BDF driver in earlier FreeType versions.

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1.4738 nspr 2:4.35-1.1build1

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1.4741 kubernetes-client v0.33.2

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1.4742 kubernetes-component-base v0.33.2

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1.4744 kubernetes-apimachinery v0.33.2

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1.4745 azure-sdk-for-go-sdk-storage-azblob v1.5.0

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```
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//go:build go1.18
// +build go1.18

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
```

```
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
```

```
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                        srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}

// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                        *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate                *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
```

```
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }

 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
```

```
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
```

```
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if
respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 beginDelete = &respr
 l.beginDelete.add(req, beginDelete)
}

resp, err := server.PollerResponderNext(beginDelete, req)
if err != nil {
 return nil, err
}

if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
 l.beginDelete.remove(req)
 return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
}
if !server.PollerResponderMore(beginDelete) {
 l.beginDelete.remove(req)
}

return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
```

```
 return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
```

```
  page.NextLink = to.Ptr(createLink())
 })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
```

```
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }
```

```
 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
```

```
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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SOFTWARE

```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
```

```
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters for
 the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
```

```
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the operation
 fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// createOrUpdateCreateRequest creates the CreateOrUpdate
 request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
```

```
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
```

```
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginDelete"
 ctx
 = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return
 nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
```

```
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
// If the operation fails it returns an *azcore.ResponseError
 type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp,
 http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
```

```
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return
 nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the
 resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
```

```
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(),
  nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if client.subscriptionID == "" {
  return nil,
 errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
```

```
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses
 of a non-Azure machine
//
// Generated from API version 2024-07-10
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp, err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(),
  nextLink, func(ctx context.Context) (*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
```

```
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil,
 err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//
   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
```

```
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client
 *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
```

```
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(),
 urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken
 == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
```

```
 })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-10
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{},
 operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}",
 url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-10")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
```

```
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

azwebpubsub

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```
{
 "main": "dist/src/index.js",
 "dependencies": {
   "@azure-tools/typespec-go": "0.3.2"
 },
 "devDependencies": {
   "@azure-tools/typespec-autorest": "0.48.0",
   "@azure-tools/typespec-azure-core": "0.48.0",
   "@azure-tools/typespec-azure-resource-manager": "0.48.0",
   "@azure-tools/typespec-azure-rulesets": "0.48.0",
   "@azure-tools/typespec-client-generator-core": "0.48.0",
   "@typespec/compiler": "0.62.0",
   "@typespec/http": "0.62.0",
   "@typespec/openapi": "0.62.0",
   "@typespec/rest": "0.62.0",
   "@typespec/versioning": "0.62.0"
 }
}
```

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```
//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
```

```
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed
 to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed
 to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
```

```
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup", "{licenseName}",
 armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
```

```
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are
 fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition:
 https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
```

```
  LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
   Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
   Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
   Processors:
to.Ptr[int32](6),
   State:      to.Ptr(armhybridcompute.LicenseStateActivated),
   Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
  },
  LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 },
}, nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
res, err := poller.PollUntilDone(ctx, nil)
if err != nil {
 log.Fatalf("failed to pull the result: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
//
  Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

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specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
```

```
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

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specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete() {
```

```
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed
 to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
```

```
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //
   ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/f41d0c9332078cb2ef07b749081d94915255ada5/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/stable/2024-07-10/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
```

```
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output
 are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType:
 to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

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1.4749 linux-atm 1:2.5.1-5.1build1

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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2.2 and above	2.1.1	2001-now	PSF	yes

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1.4753 python-magic 2:0.4.27-3

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1.4756 libtraceevent 1:1.8.2-1ubuntu2

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```
/* Print timestamps in nanoseconds */
tep_set_flag(tep,  TEP_NSEC_OUTPUT);
...
if (tep_test_flag(tep, TEP_NSEC_OUTPUT)) {
/* print timestamps in nanoseconds */
} else {
/* print timestamps in microseconds */
}
...
/* Print timestamps in microseconds */
tep_clear_flag(tep, TEP_NSEC_OUTPUT);
...
--
FILES
-----
[verse]
--
*event-parse.h*
Header file to include in order to have access to the library APIs.
*-ltraceevent*
Linker switch to add when building a program that uses the library.
--

SEE ALSO
--------
*libtraceevent*(3), *trace-cmd*(1)

AUTHOR
------
[verse]
--
*Steven Rostedt* <rostedt@goodmis.org>, author of *libtraceevent*.
*Tzvetomir Stoyanov* <tz.stoyanov@gmail.com>, author of this man page.
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--
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```
/* Failed to get the events, sorted by ID */
} else {
while(events[i]) {
/* walk through the list of the events, sorted by ID */
i++;
}
}

i=0;
events = tep_list_events_copy(tep, TEP_EVENT_SORT_NAME);
if (events == NULL) {
/* Failed to get the events, sorted by name */
} else {
while(events[i]) {
/* walk through the list of the events, sorted by name */
i++;
}
free(events);
}

...
```
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent

Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
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/* Read the 4 bytes at the offset 24 of data as an integer */
}
...
--

FILES

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--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

[verse]
--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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license: 'LGPL-2.1',

Found in path(s):
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/meson.build
No license file was found, but licenses were detected in source scan.

/* Failed to unregister yes_no_helper function */
}
--

FILES

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event-parse.h
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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-reg_print_func.txt
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```
/* Just for kallsyms parsing */
guest_tep = tep_alloc();
if (!guest_tep)
exit(-1);

if (stat(argv[2], &st) < 0) {
perror(argv[2]);
exit(-1);
}
```

```
buf = malloc(st.st_size + 1);
if (!buf)
exit(-1);

fp = fopen(argv[2], "r");
if (!fp) {
perror(argv[2]);
exit(-1);
}

if (fread(buf, st.st_size, 1, fp) < 0) {
perror(argv[2]);
exit(-1);
}

buf[st.st_size] = '\0';

if (tep_parse_kallsyms(guest_tep, buf) < 0) {
printf("Failed to parse %s\n", argv[2]);
exit(-1);
}
free(buf);

tracecmd_follow_event(handle, "kvm", "kvm_exit", show_event, guest_tep);
tracecmd_follow_event(handle, "kvm", "kvm_entry", show_event, guest_tep);

tracecmd_iterate_events(handle, NULL, 0, NULL, NULL);

tep_free(guest_tep);
tracecmd_close(handle);
}
```
--

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-kvm-plugin.txt
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```
/* There are no events */
} else {
for (i = 0; i < count; i++) {
event = (events+i);
/* process events[i] */
}

/* Get the last event */
event = tep_get_event(tep, count-1);
}
```
--

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No license file was found, but licenses were detected in source scan.

/* Cannot find "common_pid" field in the event */
} else {
/* Get pid from the data record */
pid = tep_read_number(tep, record->data + field->offset,
field->size);
}

field = tep_find_field(event, "softexpires");
if (field == NULL) {
/* Cannot find "softexpires" event specific field in the event */
} else {
/* Get softexpires parameter from the data record */
softexpires = tep_read_number(tep, record->data + field->offset,
field->size);
}

field = tep_find_any_field(event, "mode");
if (field == NULL) {
/* Cannot find "mode" field in the event */
} else
{
/* Get mode parameter from the data record */
mode = tep_read_number(tep, record->data + field->offset,
field->size);
}
}
...
--

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```
/* no plugins are loaded */
}
...
tep_unload_plugins(plugins, tep);
...
void print_plugin(struct tep_handle *tep, const char *path,
const char *name, void *data)
{
pritnf("Found libtraceevent plugin %s/%s\n", path, name);
}
```

...
tep_load_plugins_hook(tep, ".so", print_plugin, NULL);
...
--

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libtraceevent(3), *trace-cmd*(1), *tep_set_flag*(3)

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/* Failed to parse the ftrace print format */
}

if (tep_parse_format(tep, &event, buf, size, "ftrace") != 0) {
/* Failed to parse the ftrace print format */

}
...
--

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/* Failed to parse the header page */
}
...
--

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-parse_head.txt
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/* Failed to register pid / command mapping */
}
...
if (tep_is_pid_registered(tep, ls_pid) == 0) {
/* Command mapping for ls_pid is not registered */
}
...
const char *comm = tep_data_comm_from_pid(tep, ls_pid);
if (comm) {
/* Found process name for ls_pid */
}
...
int pid;

```
struct cmdline *cmd = tep_data_pid_from_comm(tep, "ls", NULL);
while (cmd) {
pid = tep_cmdline_pid(tep, cmd);
/* Found pid for process "ls" */
cmd = tep_data_pid_from_comm(tep, "ls", cmd);
}
```

--

FILES

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-commands.txt

No license file was found, but licenses were detected in source scan.

```
/* The raw data is in big endian */
} else {
/* The raw data is in little endian */
```

}
--

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-file_endian.txt
No license file was found, but licenses were detected in source scan.

/* Failed to print in the trace sequence */
}
va_end(ap);
}

trace_seq_reset(&seq);

char *str = " MAN page example";

```
if (trace_seq_puts(&seq, str) != strlen(str)) {
/* Failed to put str in the trace sequence */
}
if (trace_seq_putc(&seq, ':') != 1) {
/* Failed to put ':' in the trace sequence */
}
if (trace_seq_printf(&seq, " trace sequence: %d", 1) <= 0) {
/* Failed to print in the trace sequence */
}
foo_seq_print( &seq, "  %d\n", 2);

trace_seq_terminate(&seq);
...

if (trace_seq_do_printf(&seq) < 0 ) {
/* Failed to print the sequence buffer to the standard output */
}
FILE *fp = fopen("trace.txt", "w");
if (trace_seq_do_fprintf(&seq, fp) < 0 ) [
/* Failed to print the sequence buffer to the trace.txt file */
}

trace_seq_destroy(&seq);
...
```

--

FILES

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-tseq.txt
No license file was found, but licenses were detected in source scan.

```
/* Print the value of "common_pid" */
tep_print_field_content(&seq, record->data, record->size, field_pid);

/* Print all fields of the "hrtimer_start" event */
tep_print_fields(&seq, record->data, record->size, event);

/* Print the value of "expires" field with custom format string */
tep_print_num_field(&seq, " timer expires in %llu ", event, "expires", record, 0);

/* Print the address and the name of "function" field with custom format string */
tep_print_func_field(&seq, " timer function is %s ", event, "function", record, 0);
}
...
```
--

FILES

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-field_print.txt
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/* There is no event with ID 1857 */
}

event = tep_find_event_by_name(tep, "kvm", "kvm_exit");
if (event == NULL) {
/* There is no kvm_exit event, from kvm system */
}

void event_from_record(struct tep_record *record)
{
struct tep_event *event = tep_find_event_by_record(tep, record);
if (event == NULL) {
/* There is no event from given record */
}
}
...
--

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/* Failed to register kvm_exit address mapping */
}
...
if (tep_register_print_string(tep, "print string",
(unsigned long long) 0x87654321, NULL) != 0) {
/* Failed to register "print string" address mapping */
}
...
--

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/* Failed to get "common_pid" value */
}
}
...
--
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```
/*
* Copyright (C) 2009, 2010 Red Hat Inc, Steven Rostedt <srostedt@redhat.com>
*
*
*  The parts for function graph printing was taken and modified from the
*  Linux Kernel that were written by
*    - Copyright (C) 2009  Frederic Weisbecker,
*  Frederic Weisbecker gave his permission to relicense the code to
*  the Lesser General Public License.
*/
```

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* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/src/event-parse.c
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```
/* call libtraceevent APIs and observe any logs they produce */
...
tep_set_loglevel(TEP_LOG_CRITICAL);
--
```

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```
/* Got the value of common type field */
}
if (tep_get_field_val(NULL, event, "pid", record, &val, 0) == 0) {
/* Got the value of pid specific field */
}
comm = tep_get_field_raw(NULL, event, "comm", record, &len, 0);
if (comm != NULL) {
/* Got a pointer to the comm event specific field */
}
}
}
```

--

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/* Got the ID of the event */
}

data = tep_data_pid(tep, record);

```
if (data >= 0) {
/* Got the process ID */
}

data = tep_data_preempt_count(tep, record);
if (data >= 0) {
/* Got the preemption count */
}

data = tep_data_flags(tep, record);
if (data >= 0) {
/* Got the latency flags */
}
}
...
```
--

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```
/* Failed to add a new rule to the filter, the error string is in errstr */
}
if (tep_filter_copy(filter1, filter) != 0) {
/* Failed to copy filter in filter1 */
}
...
if (tep_filter_compare(filter, filter1) != 1) {
/* Both filters are different */
}
...
void process_record(struct tep_handle *tep, struct tep_record *record)
{
struct tep_event *event;
char *fstring;

event = tep_find_event_by_record(tep, record);

if (tep_event_filtered(filter, event->id) == 1) {
/* The event has filter */
fstring = tep_filter_make_string(filter, event->id);
if (fstring != NULL) {
/* The filter for the event is in fstring */
free(fstring);
}
}

switch (tep_filter_match(filter, record)) {
case TEP_ERRNO__FILTER_MATCH:
/* The filter matches the record */
break;
case TEP_ERRNO__FILTER_MISS:
/* The filter does not match the record */
break;
case TEP_ERRNO__FILTER_NOT_FOUND:
/* No filter found for record's event */
break;
case TEP_ERRNO__NO_FILTER:
/*
 There are no rules in the filter */
break
default:
```

```
/* An error occurred during the test */
break;
}

if (tep_filter_remove_event(filter, event->id) == 1) {
/* The event was removed from the filter */
}
}

...
tep_filter_reset(filter);
...
tep_filter_free(filter);
tep_filter_free(filter1);
...
```
--

FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
---
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
--
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/* Something wrong happened, the counter is not incremented by 1 */
}
tep_unref(tep);
...
tep_free(tep);
...
--
FILES

[verse]
--
event-parse.h
Header file to include in order to have access to the library APIs.
-ltraceevent
Linker switch to add when building a program that uses the library.
--

SEE ALSO
----
libtraceevent(3), *trace-cmd*(1)

AUTHOR

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--
Steven Rostedt <rostedt@goodmis.org>, author of *libtraceevent*.
Tzvetomir Stoyanov <tz.stoyanov@gmail.com>, author of this man page.
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/libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-strerror.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-parse-files.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-page_size.txt
* /libtraceevent-1-8-2-orig-1-tar-xz/libtraceevent-1.8.2/Documentation/libtraceevent-header_page.txt
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1.4757 libxml2 2.14.4

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1.4758 python-lxml 6.0.0

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1.4759 kimmachinegun-automemlimit 0.7.3

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1.4760 linodego 1.52.1

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//go:build go1.18
// +build go1.18

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// Code generated by Microsoft (R) AutoRest Code Generator. DO NOT EDIT.
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package fake

import (
 "context"
 "errors"
 "fmt"
 azfake "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/fake/server"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
 "net/http"
 "net/url"
 "regexp"
)

// LicensesServer is a fake server for instances of the armhybridcompute.LicensesClient type.
type LicensesServer struct {
 // BeginCreateOrUpdate is the fake for method LicensesClient.BeginCreateOrUpdate
 // HTTP status codes to indicate success:
 http.StatusOK
 BeginCreateOrUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
armhybridcompute.License, options *armhybridcompute.LicensesClientBeginCreateOrUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse], errResp
azfake.ErrorResponder)

 // BeginDelete is the fake for method LicensesClient.BeginDelete
 // HTTP status codes to indicate success: http.StatusOK, http.StatusNoContent
 BeginDelete func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientBeginDeleteOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse], errResp azfake.ErrorResponder)

 // Get is the fake for method LicensesClient.Get
 // HTTP status codes to indicate success: http.StatusOK
 Get func(ctx context.Context, resourceGroupName string, licenseName string, options
*armhybridcompute.LicensesClientGetOptions) (resp
azfake.Responder[armhybridcompute.LicensesClientGetResponse],
```

```
 errResp azfake.ErrorResponder)

 // NewListByResourceGroupPager is the fake for method LicensesClient.NewListByResourceGroupPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListByResourceGroupPager func(resourceGroupName string, options
*armhybridcompute.LicensesClientListByResourceGroupOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse])

 // NewListBySubscriptionPager is the fake for method LicensesClient.NewListBySubscriptionPager
 // HTTP status codes to indicate success: http.StatusOK
 NewListBySubscriptionPager func(options *armhybridcompute.LicensesClientListBySubscriptionOptions) (resp
azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse])

 // BeginUpdate is the fake for method LicensesClient.BeginUpdate
 // HTTP status codes to indicate success: http.StatusOK
 BeginUpdate func(ctx context.Context, resourceGroupName string, licenseName string, parameters
 armhybridcompute.LicenseUpdate, options *armhybridcompute.LicensesClientBeginUpdateOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse], errResp azfake.ErrorResponder)

 // BeginValidateLicense is the fake for method LicensesClient.BeginValidateLicense
 // HTTP status codes to indicate success: http.StatusOK
 BeginValidateLicense func(ctx context.Context, parameters armhybridcompute.License, options
*armhybridcompute.LicensesClientBeginValidateLicenseOptions) (resp
azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse], errResp
azfake.ErrorResponder)
}

// NewLicensesServerTransport creates a new instance of LicensesServerTransport with the provided
implementation.
// The returned LicensesServerTransport instance is connected to an instance of armhybridcompute.LicensesClient
via the
// azcore.ClientOptions.Transporter field in the client's constructor parameters.
func NewLicensesServerTransport(srv *LicensesServer) *LicensesServerTransport
 {
 return &LicensesServerTransport{
  srv:                    srv,
  beginCreateOrUpdate:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]](),
  beginDelete:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]](),
  newListByResourceGroupPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]](),
  newListBySubscriptionPager:
newTracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]](),
  beginUpdate:                newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]](),
  beginValidateLicense:
newTracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]](),
 }
}
```

```
// LicensesServerTransport connects instances of armhybridcompute.LicensesClient to instances of LicensesServer.
// Don't use this type directly, use NewLicensesServerTransport
 instead.
type LicensesServerTransport struct {
 srv                    *LicensesServer
 beginCreateOrUpdate
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientCreateOrUpdateResponse]]
 beginDelete            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientDeleteResponse]]
 newListByResourceGroupPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListByResourceGroupResponse]]
 newListBySubscriptionPager
*tracker[azfake.PagerResponder[armhybridcompute.LicensesClientListBySubscriptionResponse]]
 beginUpdate            *tracker[azfake.PollerResponder[armhybridcompute.LicensesClientUpdateResponse]]
 beginValidateLicense
*tracker[azfake.PollerResponder[armhybridcompute.LicensesClientValidateLicenseResponse]]
}

// Do implements the policy.Transporter interface for LicensesServerTransport.
func (l *LicensesServerTransport) Do(req *http.Request) (*http.Response, error) {
 rawMethod := req.Context().Value(runtime.CtxAPINameKey{})
 method,
 ok := rawMethod.(string)
 if !ok {
  return nil, nonRetriableError{errors.New("unable to dispatch request, missing value for CtxAPINameKey")}
 }

 var resp *http.Response
 var err error

 switch method {
 case "LicensesClient.BeginCreateOrUpdate":
  resp, err = l.dispatchBeginCreateOrUpdate(req)
 case "LicensesClient.BeginDelete":
  resp, err = l.dispatchBeginDelete(req)
 case "LicensesClient.Get":
  resp, err = l.dispatchGet(req)
 case "LicensesClient.NewListByResourceGroupPager":
  resp, err = l.dispatchNewListByResourceGroupPager(req)
 case "LicensesClient.NewListBySubscriptionPager":
  resp, err = l.dispatchNewListBySubscriptionPager(req)
 case "LicensesClient.BeginUpdate":
  resp, err = l.dispatchBeginUpdate(req)
 case "LicensesClient.BeginValidateLicense":
  resp, err = l.dispatchBeginValidateLicense(req)
 default:
  err = fmt.Errorf("unhandled API %s", method)
 }
```

```
 if err != nil {
  return nil, err
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginCreateOrUpdate(req
 *http.Request) (*http.Response, error) {
 if l.srv.BeginCreateOrUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginCreateOrUpdate not implemented")}
 }
 beginCreateOrUpdate := l.beginCreateOrUpdate.get(req)
 if beginCreateOrUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return
 nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginCreateOrUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body,
nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginCreateOrUpdate = &respr
  l.beginCreateOrUpdate.add(req, beginCreateOrUpdate)
 }

 resp, err := server.PollerResponderNext(beginCreateOrUpdate, req)
 if err != nil {
  return nil, err
```

```
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginCreateOrUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginCreateOrUpdate) {
  l.beginCreateOrUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginDelete(req *http.Request) (*http.Response, error) {
 if l.srv.BeginDelete
 == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginDelete not implemented")}
 }
 beginDelete := l.beginDelete.get(req)
 if beginDelete == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginDelete(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
  if
 respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginDelete = &respr
  l.beginDelete.add(req, beginDelete)
 }

 resp, err := server.PollerResponderNext(beginDelete, req)
 if err != nil {
```

```
 return nil, err
 }

 if !contains([]int{http.StatusOK, http.StatusNoContent}, resp.StatusCode) {
  l.beginDelete.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK,
http.StatusNoContent", resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginDelete) {
  l.beginDelete.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchGet(req *http.Request) (*http.Response, error) {
 if l.srv.Get == nil {
  return nil, &nonRetriableError{errors.New("fake for method Get not implemented")}
 }
 const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
 regex
 := regexp.MustCompile(regexStr)
 matches := regex.FindStringSubmatch(req.URL.EscapedPath())
 if matches == nil || len(matches) < 3 {
  return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
 }
 resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
 if err != nil {
  return nil, err
 }
 licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
 if err != nil {
  return nil, err
 }
 respr, errRespr := l.srv.Get(req.Context(), resourceGroupNameParam, licenseNameParam, nil)
 if respErr := server.GetError(errRespr, req); respErr != nil {
  return nil, respErr
 }
 respContent := server.GetResponseContent(respr)
 if !contains([]int{http.StatusOK}, respContent.HTTPStatus) {
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
respContent.HTTPStatus)}
 }
 resp, err := server.MarshalResponseAsJSON(respContent,
 server.GetResponse(respr).License, req)
 if err != nil {
```

```
 return nil, err
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchNewListByResourceGroupPager(req *http.Request) (*http.Response,
error) {
 if l.srv.NewListByResourceGroupPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListByResourceGroupPager not implemented")}
 }
 newListByResourceGroupPager := l.newListByResourceGroupPager.get(req)
 if newListByResourceGroupPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 2 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if
 err != nil {
   return nil, err
  }
  resp := l.srv.NewListByResourceGroupPager(resourceGroupNameParam, nil)
  newListByResourceGroupPager = &resp
  l.newListByResourceGroupPager.add(req, newListByResourceGroupPager)
  server.PagerResponderInjectNextLinks(newListByResourceGroupPager, req, func(page
*armhybridcompute.LicensesClientListByResourceGroupResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp, err := server.PagerResponderNext(newListByResourceGroupPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListByResourceGroupPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListByResourceGroupPager) {
  l.newListByResourceGroupPager.remove(req)
 }
 return resp, nil
}
```

```
func (l *LicensesServerTransport) dispatchNewListBySubscriptionPager(req *http.Request)
 (*http.Response, error) {
 if l.srv.NewListBySubscriptionPager == nil {
  return nil, &nonRetriableError{errors.New("fake for method NewListBySubscriptionPager not implemented")}
 }
 newListBySubscriptionPager := l.newListBySubscriptionPager.get(req)
 if newListBySubscriptionPager == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  resp := l.srv.NewListBySubscriptionPager(nil)
  newListBySubscriptionPager = &resp
  l.newListBySubscriptionPager.add(req, newListBySubscriptionPager)
  server.PagerResponderInjectNextLinks(newListBySubscriptionPager, req, func(page
*armhybridcompute.LicensesClientListBySubscriptionResponse, createLink func() string) {
   page.NextLink = to.Ptr(createLink())
  })
 }
 resp,
 err := server.PagerResponderNext(newListBySubscriptionPager, req)
 if err != nil {
  return nil, err
 }
 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.newListBySubscriptionPager.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PagerResponderMore(newListBySubscriptionPager) {
  l.newListBySubscriptionPager.remove(req)
 }
 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginUpdate(req *http.Request) (*http.Response, error) {
 if l.srv.BeginUpdate == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginUpdate not implemented")}
 }
 beginUpdate := l.beginUpdate.get(req)
 if beginUpdate == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/resourceGroups/(?P<resourceGroupName>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/licenses/(?P<licenseName>[!#&$-;=?-\[\]_a-zA-Z0-9~%@]+)`
  regex
```

```
 := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 3 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body, err := server.UnmarshalRequestAsJSON[armhybridcompute.LicenseUpdate](req)
  if err != nil {
   return nil, err
  }
  resourceGroupNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("resourceGroupName")])
  if err != nil {
   return nil, err
  }
  licenseNameParam, err := url.PathUnescape(matches[regex.SubexpIndex("licenseName")])
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginUpdate(req.Context(), resourceGroupNameParam, licenseNameParam, body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginUpdate = &respr
  l.beginUpdate.add(req, beginUpdate)
 }

 resp, err := server.PollerResponderNext(beginUpdate, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK},
 resp.StatusCode) {
  l.beginUpdate.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginUpdate) {
  l.beginUpdate.remove(req)
 }

 return resp, nil
}

func (l *LicensesServerTransport) dispatchBeginValidateLicense(req *http.Request) (*http.Response, error) {
 if l.srv.BeginValidateLicense == nil {
  return nil, &nonRetriableError{errors.New("fake for method BeginValidateLicense not implemented")}
 }
 beginValidateLicense := l.beginValidateLicense.get(req)
```

```
 if beginValidateLicense == nil {
  const regexStr = `/subscriptions/(?P<subscriptionId>[!#&$-;=?-\[\]_a-zA-Z0-
9~%@]+)/providers/Microsoft\.HybridCompute/validateLicense`
  regex := regexp.MustCompile(regexStr)
  matches := regex.FindStringSubmatch(req.URL.EscapedPath())
  if matches == nil || len(matches) < 1 {
   return nil, fmt.Errorf("failed to parse path %s", req.URL.Path)
  }
  body,
 err := server.UnmarshalRequestAsJSON[armhybridcompute.License](req)
  if err != nil {
   return nil, err
  }
  respr, errRespr := l.srv.BeginValidateLicense(req.Context(), body, nil)
  if respErr := server.GetError(errRespr, req); respErr != nil {
   return nil, respErr
  }
  beginValidateLicense = &respr
  l.beginValidateLicense.add(req, beginValidateLicense)
 }

 resp, err := server.PollerResponderNext(beginValidateLicense, req)
 if err != nil {
  return nil, err
 }

 if !contains([]int{http.StatusOK}, resp.StatusCode) {
  l.beginValidateLicense.remove(req)
  return nil, &nonRetriableError{fmt.Errorf("unexpected status code %d. acceptable values are http.StatusOK",
resp.StatusCode)}
 }
 if !server.PollerResponderMore(beginValidateLicense) {
  l.beginValidateLicense.remove(req)
 }

 return resp, nil
}
```

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```
{
 "main": "dist/src/index.js",
 "dependencies": {
   "@azure-tools/typespec-go": "0.4.10"
 },
 "devDependencies": {
   "@azure-tools/typespec-autorest": "0.56.0",
   "@azure-tools/typespec-azure-core": "0.56.0",
   "@azure-tools/typespec-azure-resource-manager": "0.56.2",
   "@azure-tools/typespec-azure-rulesets": "0.56.0",
   "@azure-tools/typespec-client-generator-core": "0.56.2",
   "@azure-tools/typespec-liftr-base": "0.8.0",
   "@typespec/compiler": "1.0.0",
   "@typespec/events": "0.70.0",
   "@typespec/http": "1.0.1",
   "@typespec/openapi": "1.0.0",
   "@typespec/rest": "0.70.0",
   "@typespec/sse": "0.70.0",
   "@typespec/streams": "0.70.0",
   "@typespec/versioning": "0.70.0"
 }
}
```


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SOFTWARE.
//go:build go1.18
// +build go1.18

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```
// Changes may cause incorrect behavior and will be lost if the code is regenerated.

package armhybridcompute

import (
 "context"
 "errors"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/arm"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/policy"
 "github.com/Azure/azure-sdk-for-go/sdk/azcore/runtime"
 "net/http"
 "net/url"
 "strings"
)

// LicensesClient contains the methods for the Licenses group.
// Don't use this type directly, use NewLicensesClient() instead.
type LicensesClient struct {
 internal       *arm.Client
 subscriptionID string
}

// NewLicensesClient creates a new instance of LicensesClient with the specified values.
//   - subscriptionID - The ID of the target
 subscription.
//   - credential - used to authorize requests. Usually a credential from azidentity.
//   - options - pass nil to accept the default values.
func NewLicensesClient(subscriptionID string, credential azcore.TokenCredential, options *arm.ClientOptions)
(*LicensesClient, error) {
 cl, err := arm.NewClient(moduleName, moduleVersion, credential, options)
 if err != nil {
  return nil, err
 }
 client := &LicensesClient{
  subscriptionID: subscriptionID,
  internal:       cl,
 }
 return client, nil
}

// BeginCreateOrUpdate - The operation to create or update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - parameters - Parameters supplied to the Create license operation.
```

```
//   - options - LicensesClientBeginCreateOrUpdateOptions contains the optional parameters
 for the LicensesClient.BeginCreateOrUpdate
//     method.
func (client *LicensesClient) BeginCreateOrUpdate(ctx context.Context, resourceGroupName string, licenseName
string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions)
(*runtime.Poller[LicensesClientCreateOrUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.createOrUpdate(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientCreateOrUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// CreateOrUpdate - The operation to create or update a license.
// If the
 operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) createOrUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginCreateOrUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.createOrUpdateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
```

```
 return httpResp, nil
}

// createOrUpdateCreateRequest creates
 the CreateOrUpdate request.
func (client *LicensesClient) createOrUpdateCreateRequest(ctx context.Context, resourceGroupName string,
licenseName string, parameters License, options *LicensesClientBeginCreateOrUpdateOptions) (*policy.Request,
error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx,
 http.MethodPut, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginDelete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientBeginDeleteOptions contains the optional parameters for the
LicensesClient.BeginDelete method.
func (client *LicensesClient) BeginDelete(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*runtime.Poller[LicensesClientDeleteResponse],
```

```
 error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.deleteOperation(ctx, resourceGroupName, licenseName, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientDeleteResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// Delete - The operation to delete a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) deleteOperation(ctx context.Context, resourceGroupName string, licenseName string,
options *LicensesClientBeginDeleteOptions) (*http.Response, error) {
 var err error
 const
 operationName = "LicensesClient.BeginDelete"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.deleteCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK, http.StatusNoContent) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// deleteCreateRequest creates the Delete request.
func (client *LicensesClient) deleteCreateRequest(ctx context.Context, resourceGroupName string, licenseName
```

```
string, options *LicensesClientBeginDeleteOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodDelete, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// Get - Retrieves information about the view of a license.
//
 If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - licenseName - The name of the license.
//   - options - LicensesClientGetOptions contains the optional parameters for the LicensesClient.Get method.
func (client *LicensesClient) Get(ctx context.Context, resourceGroupName string, licenseName string, options
*LicensesClientGetOptions) (LicensesClientGetResponse, error) {
 var err error
 const operationName = "LicensesClient.Get"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.getCreateRequest(ctx, resourceGroupName, licenseName, options)
 if err != nil {
  return LicensesClientGetResponse{}, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
```

```
 if err != nil
 {
  return LicensesClientGetResponse{}, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return LicensesClientGetResponse{}, err
 }
 resp, err := client.getHandleResponse(httpResp)
 return resp, err
}

// getCreateRequest creates the Get request.
func (client *LicensesClient) getCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, options *LicensesClientGetOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if
 licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}", url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// getHandleResponse handles the Get response.
func (client *LicensesClient) getHandleResponse(resp *http.Response) (LicensesClientGetResponse, error) {
 result := LicensesClientGetResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.License); err != nil {
  return LicensesClientGetResponse{}, err
 }
```

```
 return result, nil
}

// NewListByResourceGroupPager - The operation to get all licenses of a non-Azure machine
//
// Generated from
 API version 2024-07-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
//   - options - LicensesClientListByResourceGroupOptions contains the optional parameters for the
LicensesClient.NewListByResourceGroupPager
//     method.
func (client *LicensesClient) NewListByResourceGroupPager(resourceGroupName string, options
*LicensesClientListByResourceGroupOptions) *runtime.Pager[LicensesClientListByResourceGroupResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListByResourceGroupResponse]{
  More: func(page LicensesClientListByResourceGroupResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListByResourceGroupResponse)
(LicensesClientListByResourceGroupResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListByResourceGroupPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listByResourceGroupCreateRequest(ctx, resourceGroupName, options)
   }, nil)
   if err != nil {
    return LicensesClientListByResourceGroupResponse{}, err
   }
   return client.listByResourceGroupHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listByResourceGroupCreateRequest creates the ListByResourceGroup request.
func (client *LicensesClient) listByResourceGroupCreateRequest(ctx context.Context, resourceGroupName string,
options *LicensesClientListByResourceGroupOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es"
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
```

```
 if
 client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listByResourceGroupHandleResponse handles the ListByResourceGroup response.
func (client *LicensesClient) listByResourceGroupHandleResponse(resp *http.Response)
(LicensesClientListByResourceGroupResponse, error) {
 result := LicensesClientListByResourceGroupResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListByResourceGroupResponse{}, err
 }
 return
 result, nil
}

// NewListBySubscriptionPager - The operation to get all licenses of a non-Azure machine
//
// Generated from API version 2024-07-31-preview
//   - options - LicensesClientListBySubscriptionOptions contains the optional parameters for the
LicensesClient.NewListBySubscriptionPager
//     method.
func (client *LicensesClient) NewListBySubscriptionPager(options *LicensesClientListBySubscriptionOptions)
*runtime.Pager[LicensesClientListBySubscriptionResponse] {
 return runtime.NewPager(runtime.PagingHandler[LicensesClientListBySubscriptionResponse]{
  More: func(page LicensesClientListBySubscriptionResponse) bool {
   return page.NextLink != nil && len(*page.NextLink) > 0
  },
  Fetcher: func(ctx context.Context, page *LicensesClientListBySubscriptionResponse)
(LicensesClientListBySubscriptionResponse, error) {
   ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, "LicensesClient.NewListBySubscriptionPager")
   nextLink := ""
   if page != nil {
    nextLink = *page.NextLink
   }
   resp,
```

```
 err := runtime.FetcherForNextLink(ctx, client.internal.Pipeline(), nextLink, func(ctx context.Context)
(*policy.Request, error) {
    return client.listBySubscriptionCreateRequest(ctx, options)
   }, nil)
   if err != nil {
    return LicensesClientListBySubscriptionResponse{}, err
   }
   return client.listBySubscriptionHandleResponse(resp)
  },
  Tracer: client.internal.Tracer(),
 })
}

// listBySubscriptionCreateRequest creates the ListBySubscription request.
func (client *LicensesClient) listBySubscriptionCreateRequest(ctx context.Context, options
*LicensesClientListBySubscriptionOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/licenses"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodGet,
 runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 return req, nil
}

// listBySubscriptionHandleResponse handles the ListBySubscription response.
func (client *LicensesClient) listBySubscriptionHandleResponse(resp *http.Response)
(LicensesClientListBySubscriptionResponse, error) {
 result := LicensesClientListBySubscriptionResponse{}
 if err := runtime.UnmarshalAsJSON(resp, &result.LicensesListResult); err != nil {
  return LicensesClientListBySubscriptionResponse{}, err
 }
 return result, nil
}

// BeginUpdate - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
//   - resourceGroupName - The name of the resource group. The name is case insensitive.
```

```
//   - licenseName
 - The name of the license.
//   - parameters - Parameters supplied to the Update license operation.
//   - options - LicensesClientBeginUpdateOptions contains the optional parameters for the
LicensesClient.BeginUpdate method.
func (client *LicensesClient) BeginUpdate(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions)
(*runtime.Poller[LicensesClientUpdateResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.update(ctx, resourceGroupName, licenseName, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientUpdateResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientUpdateResponse]{
   Tracer:
 client.internal.Tracer(),
  })
 }
}

// Update - The operation to update a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) update(ctx context.Context, resourceGroupName string, licenseName string,
parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginUpdate"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.updateCreateRequest(ctx, resourceGroupName, licenseName, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
```

```
 return
 nil, err
 }
 return httpResp, nil
}

// updateCreateRequest creates the Update request.
func (client *LicensesClient) updateCreateRequest(ctx context.Context, resourceGroupName string, licenseName
string, parameters LicenseUpdate, options *LicensesClientBeginUpdateOptions) (*policy.Request, error) {
 urlPath :=
"/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.HybridCompute/licens
es/{licenseName}"
 if client.subscriptionID == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 if resourceGroupName == "" {
  return nil, errors.New("parameter resourceGroupName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{resourceGroupName}", url.PathEscape(resourceGroupName))
 if licenseName == "" {
  return nil, errors.New("parameter licenseName cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{licenseName}",
 url.PathEscape(licenseName))
 req, err := runtime.NewRequest(ctx, http.MethodPatch, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}

// BeginValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
//   - parameters - Parameters supplied to the license validation operation.
//   - options - LicensesClientBeginValidateLicenseOptions contains the optional parameters for the
LicensesClient.BeginValidateLicense
//     method.
func (client *LicensesClient) BeginValidateLicense(ctx context.Context, parameters License, options
```

```
*LicensesClientBeginValidateLicenseOptions)
 (*runtime.Poller[LicensesClientValidateLicenseResponse], error) {
 if options == nil || options.ResumeToken == "" {
  resp, err := client.validateLicense(ctx, parameters, options)
  if err != nil {
   return nil, err
  }
  poller, err := runtime.NewPoller(resp, client.internal.Pipeline(),
&runtime.NewPollerOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
  return poller, err
 } else {
  return runtime.NewPollerFromResumeToken(options.ResumeToken, client.internal.Pipeline(),
&runtime.NewPollerFromResumeTokenOptions[LicensesClientValidateLicenseResponse]{
   Tracer: client.internal.Tracer(),
  })
 }
}

// ValidateLicense - The operation to validate a license.
// If the operation fails it returns an *azcore.ResponseError type.
//
// Generated from API version 2024-07-31-preview
func (client *LicensesClient) validateLicense(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions)
 (*http.Response, error) {
 var err error
 const operationName = "LicensesClient.BeginValidateLicense"
 ctx = context.WithValue(ctx, runtime.CtxAPINameKey{}, operationName)
 ctx, endSpan := runtime.StartSpan(ctx, operationName, client.internal.Tracer(), nil)
 defer func() { endSpan(err) }()
 req, err := client.validateLicenseCreateRequest(ctx, parameters, options)
 if err != nil {
  return nil, err
 }
 httpResp, err := client.internal.Pipeline().Do(req)
 if err != nil {
  return nil, err
 }
 if !runtime.HasStatusCode(httpResp, http.StatusOK) {
  err = runtime.NewResponseError(httpResp)
  return nil, err
 }
 return httpResp, nil
}

// validateLicenseCreateRequest creates the ValidateLicense request.
```

```
func (client *LicensesClient) validateLicenseCreateRequest(ctx context.Context, parameters License, options
*LicensesClientBeginValidateLicenseOptions) (*policy.Request, error) {
 urlPath := "/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/validateLicense"
 if client.subscriptionID
 == "" {
  return nil, errors.New("parameter client.subscriptionID cannot be empty")
 }
 urlPath = strings.ReplaceAll(urlPath, "{subscriptionId}", url.PathEscape(client.subscriptionID))
 req, err := runtime.NewRequest(ctx, http.MethodPost, runtime.JoinPaths(client.internal.Endpoint(), urlPath))
 if err != nil {
  return nil, err
 }
 reqQP := req.Raw().URL.Query()
 reqQP.Set("api-version", "2024-07-31-preview")
 req.Raw().URL.RawQuery = reqQP.Encode()
 req.Raw().Header["Accept"] = []string{"application/json"}
 if err := runtime.MarshalAsJSON(req, parameters); err != nil {
  return nil, err
 }
 return req, nil
}
```

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```
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// +build go1.18

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// Changes may cause incorrect behavior and will be lost if the code is regenerated.
// DO NOT EDIT.

package armhybridcompute_test

import (
 "context"
 "log"

 "github.com/Azure/azure-sdk-for-go/sdk/azcore/to"
 "github.com/Azure/azure-sdk-for-go/sdk/azidentity"
 "github.com/Azure/azure-sdk-for-go/sdk/resourcemanager/hybridcompute/armhybridcompute/v2"
```

```
)

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_ValidateLicense.json
func ExampleLicensesClient_BeginValidateLicense() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err !=
 nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginValidateLicense(ctx, armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err !=
 nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID: to.Ptr("/subscriptions/{subscriptionId}/providers/Microsoft.HybridCompute/Licenses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
```

```
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](2),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//
    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_CreateOrUpdate.json
func ExampleLicensesClient_BeginCreateOrUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginCreateOrUpdate(ctx, "myResourceGroup",
 "{licenseName}", armhybridcompute.License{
  Location: to.Ptr("eastus2euap"),
  Properties: &armhybridcompute.LicenseProperties{
   LicenseDetails: &armhybridcompute.LicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors: to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
```

```
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values
 in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](2),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated
 from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Update.json
func ExampleLicensesClient_BeginUpdate() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginUpdate(ctx, "myResourceGroup", "{licenseName}",
armhybridcompute.LicenseUpdate{
  Properties: &armhybridcompute.LicenseUpdateProperties{
   LicenseDetails: &armhybridcompute.LicenseUpdatePropertiesLicenseDetails{
    Type:       to.Ptr(armhybridcompute.LicenseCoreTypePCore),
```

```
    Edition:    to.Ptr(armhybridcompute.LicenseEditionDatacenter),
    Processors:
 to.Ptr[int32](6),
    State:      to.Ptr(armhybridcompute.LicenseStateActivated),
    Target:     to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
   },
   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
  },
 }, nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 res, err := poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
 // You could use response here. We use blank identifier for just demo purposes.
 _ = res
 // If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
 // res.License = armhybridcompute.License{
 //  Name: to.Ptr("{licenseName}"),
 //  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/lice
nses/{licenseName}"),
 //
  Location: to.Ptr("eastus2euap"),
 //  Properties: &armhybridcompute.LicenseProperties{
 //   LicenseDetails: &armhybridcompute.LicenseDetails{
 //    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //    AssignedLicenses: to.Ptr[int32](8),
 //    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //    ImmutableID: to.Ptr("<generated Guid>"),
 //    Processors: to.Ptr[int32](6),
 //    State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //   },
 //   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //   TenantID: to.Ptr("{tenandId}"),
 //  },
 // }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Get.json
func ExampleLicensesClient_Get() {
```

```
cred, err := azidentity.NewDefaultAzureCredential(nil)
if
err != nil {
 log.Fatalf("failed to obtain a credential: %v", err)
}
ctx := context.Background()
clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
if err != nil {
 log.Fatalf("failed to create client: %v", err)
}
res, err := clientFactory.NewLicensesClient().Get(ctx, "myResourceGroup", "{licenseName}", nil)
if err != nil {
 log.Fatalf("failed to finish the request: %v", err)
}
// You could use response here. We use blank identifier for just demo purposes.
_ = res
// If the HTTP response code is 200 as defined in example definition, your response structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
// res.License = armhybridcompute.License{
//  Name: to.Ptr("{licenseName}"),
//  Type: to.Ptr("Microsoft.HybridCompute/licenses"),
//  ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
//
 Location: to.Ptr("eastus2euap"),
//  Properties: &armhybridcompute.LicenseProperties{
//   LicenseDetails: &armhybridcompute.LicenseDetails{
//    Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
//    AssignedLicenses: to.Ptr[int32](8),
//    Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
//    ImmutableID: to.Ptr("<generated Guid>"),
//    Processors: to.Ptr[int32](6),
//    State: to.Ptr(armhybridcompute.LicenseStateActivated),
//    Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
//   },
//   LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
//   TenantID: to.Ptr("{tenandId}"),
//  },
// }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-preview/examples/license/License_Delete.json
func ExampleLicensesClient_BeginDelete()
 {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
```

```
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 poller, err := clientFactory.NewLicensesClient().BeginDelete(ctx, "myResourceGroup", "{licenseName}", nil)
 if err != nil {
  log.Fatalf("failed to finish the request: %v", err)
 }
 _, err = poller.PollUntilDone(ctx, nil)
 if err != nil {
  log.Fatalf("failed to pull the result: %v", err)
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListByResourceGroup.json
func ExampleLicensesClient_NewListByResourceGroupPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if
 err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListByResourceGroupPager("myResourceGroup", nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
   _ = v
  }
  // If the HTTP response code is 200 as defined in example definition, your page structure would look as follows.
Please pay attention that all the values in the output are fake values for just demo purposes.
  // page.LicensesListResult = armhybridcompute.LicensesListResult{
  //  Value: []*armhybridcompute.License{
  //   {
```

```
 //    Name: to.Ptr("{licenseName}"),
 //
   Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //     },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}

// Generated from example definition: https://github.com/Azure/azure-rest-api-
specs/blob/63d530d0def1c624f5d42d39170ff4ac196522e2/specification/hybridcompute/resource-
manager/Microsoft.HybridCompute/preview/2024-07-31-
preview/examples/license/License_ListBySubscription.json
func
 ExampleLicensesClient_NewListBySubscriptionPager() {
 cred, err := azidentity.NewDefaultAzureCredential(nil)
 if err != nil {
  log.Fatalf("failed to obtain a credential: %v", err)
 }
 ctx := context.Background()
 clientFactory, err := armhybridcompute.NewClientFactory("<subscription-id>", cred, nil)
 if err != nil {
  log.Fatalf("failed to create client: %v", err)
 }
 pager := clientFactory.NewLicensesClient().NewListBySubscriptionPager(nil)
 for pager.More() {
  page, err := pager.NextPage(ctx)
  if err != nil {
   log.Fatalf("failed to advance page: %v", err)
  }
  for _, v := range page.Value {
   // You could use page here. We use blank identifier for just demo purposes.
```

```
  _ = v
 }
 // If the HTTP response code is 200 as defined in example definition, your page structure would look as
follows. Please pay attention that all the values in the output are fake values for just demo purposes.
 // page.LicensesListResult = armhybridcompute.LicensesListResult{
 //  Value: []*armhybridcompute.License{
 //   {
 //    Name: to.Ptr("{licenseName}"),
 //    Type: to.Ptr("Microsoft.HybridCompute/licenses"),
 //    ID:
to.Ptr("/subscriptions/{subscriptionId}/resourceGroups/myResourceGroup/providers/Microsoft.HybridCompute/Lic
enses/{licenseName}"),
 //    Location: to.Ptr("eastus2euap"),
 //    Properties: &armhybridcompute.LicenseProperties{
 //     LicenseDetails: &armhybridcompute.LicenseDetails{
 //      Type: to.Ptr(armhybridcompute.LicenseCoreTypePCore),
 //      AssignedLicenses: to.Ptr[int32](8),
 //      Edition: to.Ptr(armhybridcompute.LicenseEditionDatacenter),
 //      ImmutableID: to.Ptr("<generated Guid>"),
 //      Processors: to.Ptr[int32](6),
 //      State: to.Ptr(armhybridcompute.LicenseStateActivated),
 //      Target: to.Ptr(armhybridcompute.LicenseTargetWindowsServer2012),
 //
    },
 //     LicenseType: to.Ptr(armhybridcompute.LicenseTypeESU),
 //     TenantID: to.Ptr("{tenandId}"),
 //    },
 //  }},
 // }
 }
}
```

1.4762 go-ovh 1.8.0

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1.4763 oci-go-sdk 65.93.1

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// Code generated. DO NOT EDIT.

// Java Management Service Fleets API
//
// The APIs for the Fleet Management (https://docs.oracle.com/en-us/iaas/jms/doc/fleet-management.html) feature
of Java Management Service to monitor and manage the usage of Java in your enterprise. Use these APIs to manage
fleets, configure managed instances to report to fleets, and gain insights into the Java workloads running on these
instances by carrying out basic and advanced features.
//

package jms

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const
```

```
 (
 LicenseTypeOtn        LicenseTypeEnum = "OTN"
 LicenseTypeNftc       LicenseTypeEnum = "NFTC"
 LicenseTypeRestricted LicenseTypeEnum = "RESTRICTED"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "OTN":        LicenseTypeOtn,
 "NFTC":       LicenseTypeNftc,
 "RESTRICTED": LicenseTypeRestricted,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "otn":        LicenseTypeOtn,
 "nftc":       LicenseTypeNftc,
 "restricted": LicenseTypeRestricted,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive
 comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
```

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// Code generated. DO NOT EDIT.

```
// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeStandardEdition                    LicenseTypeEnum = "STANDARD_EDITION"
 LicenseTypeEnterpriseEdition                  LicenseTypeEnum = "ENTERPRISE_EDITION"
 LicenseTypeEnterpriseEditionForGpuInfrastructure LicenseTypeEnum =
"ENTERPRISE_EDITION_FOR_GPU_INFRASTRUCTURE"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "STANDARD_EDITION":
                        LicenseTypeStandardEdition,
 "ENTERPRISE_EDITION":                    LicenseTypeEnterpriseEdition,
 "ENTERPRISE_EDITION_FOR_GPU_INFRASTRUCTURE":
LicenseTypeEnterpriseEditionForGpuInfrastructure,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "standard_edition":                    LicenseTypeStandardEdition,
 "enterprise_edition":                  LicenseTypeEnterpriseEdition,
 "enterprise_edition_for_gpu_infrastructure": LicenseTypeEnterpriseEditionForGpuInfrastructure,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
```

```
  "STANDARD_EDITION",
  "ENTERPRISE_EDITION",
  "ENTERPRISE_EDITION_FOR_GPU_INFRASTRUCTURE",
 }
}

//
 GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseMetric Overview of product license and resources usage.
type LicenseMetric struct {

 // Total number of product licenses in a particular compartment.
 TotalProductLicenseCount *int `mandatory:"true" json:"totalProductLicenseCount"`

 // Total number of BYOL instances in a particular
 compartment.
 TotalByolInstanceCount *int `mandatory:"true" json:"totalByolInstanceCount"`

 // Total number of License Included (LI) instances in a particular compartment.
 TotalLicenseIncludedInstanceCount *int `mandatory:"true" json:"totalLicenseIncludedInstanceCount"`

 // Total number of license records that will expire within 90 days in a particular compartment.
 LicenseRecordExpiringSoonCount *int `mandatory:"true" json:"licenseRecordExpiringSoonCount"`
}
```

```
func (m LicenseMetric) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseMetric) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

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// Code generated. DO NOT EDIT.

```
// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseConsumerCollection Collection of resources which have consumed licenses.
type ProductLicenseConsumerCollection struct {

 // Collection of product license consumers.
 Items []ProductLicenseConsumerSummary `mandatory:"true" json:"items"`
}

func (m ProductLicenseConsumerCollection)
 String() string {
 return common.PointerString(m)
}
```

```
// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseConsumerCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseSummary The product license summary.
type ProductLicenseSummary struct {

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 where the product license is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

 // Specifies whether the vendor is Oracle or a third party.
```

```
IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

// License record name
DisplayName *string `mandatory:"true" json:"displayName"`

// Status description for the current product license status.
StatusDescription *string `mandatory:"false" json:"statusDescription"`

// The current product license state.
LifecycleState LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

// The total number of licenses available for the product license, calculated by adding up all the license counts for
active license records associated with the product license.
TotalActiveLicenseUnitCount
*int `mandatory:"false" json:"totalActiveLicenseUnitCount"`

// The number of license units consumed. Updated after each allocation run.
TotalLicenseUnitsConsumed *float64 `mandatory:"false" json:"totalLicenseUnitsConsumed"`

// The number of license records associated with the product license.
TotalLicenseRecordCount *int `mandatory:"false" json:"totalLicenseRecordCount"`

// The number of active license records associated with the product license.
ActiveLicenseRecordCount *int `mandatory:"false" json:"activeLicenseRecordCount"`

// Specifies whether or not the product license is oversubscribed.
IsOverSubscribed *bool `mandatory:"false" json:"isOverSubscribed"`

// Specifies if the license unit count is unlimited.
IsUnlimited *bool `mandatory:"false" json:"isUnlimited"`

// The vendor of the ProductLicense
VendorName *string `mandatory:"false" json:"vendorName"`

// The time the product license was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted
datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the product license was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

// The images associated with the product license.
Images []ImageResponse `mandatory:"false" json:"images"`

// Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
// Example: `{"bar-key": "value"}`
```

```
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags
 map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m ProductLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(),
 ",")))
 }

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
```

```
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseAcceptanceRecordCollection Contains a list of JavaLicenseAcceptanceRecordSummary objects.
type JavaLicenseAcceptanceRecordCollection struct {

 // List of JavaLicenseAcceptanceRecords.
 Items []JavaLicenseAcceptanceRecordSummary `mandatory:"true" json:"items"`
}

func (m JavaLicenseAcceptanceRecordCollection) String() string {
 return
 common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseAcceptanceRecordCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateJavaLicenseAcceptanceRecordDetails The attributes for updating a Java license acceptance record.
type UpdateJavaLicenseAcceptanceRecordDetails struct {

 // Status of license acceptance.
 LicenseAcceptanceStatus LicenseAcceptanceStatusEnum `mandatory:"true" json:"licenseAcceptanceStatus"`

 // Simple key-value pair that is applied
 without any predefined name, type, or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`. (See Managing Tags and Tag Namespaces
(https://docs.oracle.com/iaas/Content/Tagging/Concepts/understandingfreeformtags.htm).)
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`. (See Understanding Free-form Tags
(https://docs.oracle.com/iaas/Content/Tagging/Tasks/managingtagsandtagnamespaces.htm)).
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateJavaLicenseAcceptanceRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateJavaLicenseAcceptanceRecordDetails)
 ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseAcceptanceStatusEnum(string(m.LicenseAcceptanceStatus)); !ok &&
m.LicenseAcceptanceStatus != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseAcceptanceStatus: %s.
Supported values are: %s.", m.LicenseAcceptanceStatus,
strings.Join(GetLicenseAcceptanceStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteProductLicenseRequest wrapper for the DeleteProductLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/DeleteProductLicense.go.html to see an example of how to use
DeleteProductLicenseRequest.
type DeleteProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact
 Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
```

```
 *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request DeleteProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage
 := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteProductLicenseResponse wrapper for the DeleteProductLicense operation
type DeleteProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
```

```
 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response DeleteProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response DeleteProductLicenseResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseSummary Summary of a license type for Java.
type JavaLicenseSummary struct {

 // Commonly used name for the license type.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // License Type
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Publicly accessible license URL containing the detailed
 terms and conditions.
 LicenseUrl *string `mandatory:"true" json:"licenseUrl"`
}

func (m JavaLicenseSummary) String() string {
```

```
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListLicenseRecordsRequest wrapper for the ListLicenseRecords operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/ListLicenseRecords.go.html
to see an example of how to use ListLicenseRecordsRequest.
type ListLicenseRecordsRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query"
 name:"limit"`
```

```
 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListLicenseRecordsSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `expirationDate`
 // * **expirationDate:** Sorts by expiration date of the license record.
 SortBy ListLicenseRecordsSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted
 to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListLicenseRecordsRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListLicenseRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListLicenseRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
```

```
func (request ListLicenseRecordsRequest) RetryPolicy()
 *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListLicenseRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListLicenseRecordsSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder !=
"" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListLicenseRecordsSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListLicenseRecordsSortByEnum(string(request.SortBy)); !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListLicenseRecordsSortByEnumStringValues(),
 ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListLicenseRecordsResponse wrapper for the ListLicenseRecords operation
type ListLicenseRecordsResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of LicenseRecordCollection instances
 LicenseRecordCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListLicenseRecordsResponse) String() string
 {
 return common.PointerString(response)
```

```
}

// HTTPResponse implements the OCIResponse interface
func (response ListLicenseRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListLicenseRecordsSortOrderEnum Enum with underlying type: string
type ListLicenseRecordsSortOrderEnum string

// Set of constants representing the allowable values for ListLicenseRecordsSortOrderEnum
const (
 ListLicenseRecordsSortOrderAsc  ListLicenseRecordsSortOrderEnum = "ASC"
 ListLicenseRecordsSortOrderDesc ListLicenseRecordsSortOrderEnum = "DESC"
)

var mappingListLicenseRecordsSortOrderEnum = map[string]ListLicenseRecordsSortOrderEnum{
 "ASC":  ListLicenseRecordsSortOrderAsc,
 "DESC": ListLicenseRecordsSortOrderDesc,
}

var mappingListLicenseRecordsSortOrderEnumLowerCase = map[string]ListLicenseRecordsSortOrderEnum{
 "asc":  ListLicenseRecordsSortOrderAsc,
 "desc": ListLicenseRecordsSortOrderDesc,
}

// GetListLicenseRecordsSortOrderEnumValues Enumerates the set of values
 for ListLicenseRecordsSortOrderEnum
func GetListLicenseRecordsSortOrderEnumValues() []ListLicenseRecordsSortOrderEnum {
 values := make([]ListLicenseRecordsSortOrderEnum, 0)
 for _, v := range mappingListLicenseRecordsSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListLicenseRecordsSortOrderEnumStringValues Enumerates the set of values in String for
ListLicenseRecordsSortOrderEnum
func GetListLicenseRecordsSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListLicenseRecordsSortOrderEnum performs case Insensitive comparison on enum value and return
the desired enum
func GetMappingListLicenseRecordsSortOrderEnum(val string) (ListLicenseRecordsSortOrderEnum, bool) {
```

```
 enum, ok := mappingListLicenseRecordsSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListLicenseRecordsSortByEnum Enum with underlying type: string
type ListLicenseRecordsSortByEnum string

// Set of constants representing the allowable
 values for ListLicenseRecordsSortByEnum
const (
 ListLicenseRecordsSortByExpirationdate ListLicenseRecordsSortByEnum = "expirationDate"
)

var mappingListLicenseRecordsSortByEnum = map[string]ListLicenseRecordsSortByEnum{
 "expirationDate": ListLicenseRecordsSortByExpirationdate,
}

var mappingListLicenseRecordsSortByEnumLowerCase = map[string]ListLicenseRecordsSortByEnum{
 "expirationdate": ListLicenseRecordsSortByExpirationdate,
}

// GetListLicenseRecordsSortByEnumValues Enumerates the set of values for ListLicenseRecordsSortByEnum
func GetListLicenseRecordsSortByEnumValues() []ListLicenseRecordsSortByEnum {
 values := make([]ListLicenseRecordsSortByEnum, 0)
 for _, v := range mappingListLicenseRecordsSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListLicenseRecordsSortByEnumStringValues Enumerates the set of values in String for
ListLicenseRecordsSortByEnum
func GetListLicenseRecordsSortByEnumStringValues() []string {
 return []string{
  "expirationDate",
 }
}

//
 GetMappingListLicenseRecordsSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListLicenseRecordsSortByEnum(val string) (ListLicenseRecordsSortByEnum, bool) {
 enum, ok := mappingListLicenseRecordsSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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```
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// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListJavaLicensesRequest wrapper for the ListJavaLicenses operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/jmsjavadownloads/ListJavaLicenses.go.html
to see an example of how to use ListJavaLicensesRequest.
type ListJavaLicensesRequest struct {

 // Unique Java license type.
 LicenseType ListJavaLicensesLicenseTypeEnum `mandatory:"false" contributesTo:"query" name:"licenseType"
omitEmpty:"true"`

 // A filter to return only resources that match the display name.
 DisplayName
 *string `mandatory:"false" contributesTo:"query" name:"displayName"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // The page token representing the page at which to start retrieving results. The token is usually retrieved from a
previous list call.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The sort order, either 'asc' or 'desc'.
 SortOrder ListJavaLicensesSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // The field to sort by. If no value is specified, _licenseType_ is the default.
 SortBy ListJavaLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy" omitEmpty:"true"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that
```

```
 the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListJavaLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListJavaLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListJavaLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListJavaLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListJavaLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListJavaLicensesLicenseTypeEnum(string(request.LicenseType)); !ok &&
request.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", request.LicenseType, strings.Join(GetListJavaLicensesLicenseTypeEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListJavaLicensesSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder != ""
{
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListJavaLicensesSortOrderEnumStringValues(), ",")))
 }
```

```
 if _, ok := GetMappingListJavaLicensesSortByEnum(string(request.SortBy));
 !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListJavaLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListJavaLicensesResponse wrapper for the ListJavaLicenses operation
type ListJavaLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of JavaLicenseCollection instances
 JavaLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For list pagination. When this header appears in the response, additional pages of results remain.
 // Include this value as the `page` parameter
 for the subsequent GET request to get the next batch of items.
 // For important details about how pagination works, see List Pagination
(https://docs.oracle.com/iaas/Content/API/Concepts/usingapi.htm#nine).
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListJavaLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListJavaLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListJavaLicensesLicenseTypeEnum Enum with underlying type: string
type ListJavaLicensesLicenseTypeEnum string

// Set of constants representing the allowable values for ListJavaLicensesLicenseTypeEnum
const (
 ListJavaLicensesLicenseTypeOtn       ListJavaLicensesLicenseTypeEnum = "OTN"
 ListJavaLicensesLicenseTypeNftc      ListJavaLicensesLicenseTypeEnum = "NFTC"
```

```
 ListJavaLicensesLicenseTypeRestricted ListJavaLicensesLicenseTypeEnum = "RESTRICTED"
)

var
 mappingListJavaLicensesLicenseTypeEnum = map[string]ListJavaLicensesLicenseTypeEnum{
 "OTN":        ListJavaLicensesLicenseTypeOtn,
 "NFTC":       ListJavaLicensesLicenseTypeNftc,
 "RESTRICTED": ListJavaLicensesLicenseTypeRestricted,
}

var mappingListJavaLicensesLicenseTypeEnumLowerCase = map[string]ListJavaLicensesLicenseTypeEnum{
 "otn":        ListJavaLicensesLicenseTypeOtn,
 "nftc":       ListJavaLicensesLicenseTypeNftc,
 "restricted": ListJavaLicensesLicenseTypeRestricted,
}

// GetListJavaLicensesLicenseTypeEnumValues Enumerates the set of values for
ListJavaLicensesLicenseTypeEnum
func GetListJavaLicensesLicenseTypeEnumValues() []ListJavaLicensesLicenseTypeEnum {
 values := make([]ListJavaLicensesLicenseTypeEnum, 0)
 for _, v := range mappingListJavaLicensesLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicensesLicenseTypeEnumStringValues Enumerates the set of values in String for
ListJavaLicensesLicenseTypeEnum
func GetListJavaLicensesLicenseTypeEnumStringValues()
 []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingListJavaLicensesLicenseTypeEnum performs case Insensitive comparison on enum value and return
the desired enum
func GetMappingListJavaLicensesLicenseTypeEnum(val string) (ListJavaLicensesLicenseTypeEnum, bool) {
 enum, ok := mappingListJavaLicensesLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListJavaLicensesSortOrderEnum Enum with underlying type: string
type ListJavaLicensesSortOrderEnum string

// Set of constants representing the allowable values for ListJavaLicensesSortOrderEnum
```

```
const (
 ListJavaLicensesSortOrderAsc  ListJavaLicensesSortOrderEnum = "ASC"
 ListJavaLicensesSortOrderDesc ListJavaLicensesSortOrderEnum = "DESC"
)

var mappingListJavaLicensesSortOrderEnum = map[string]ListJavaLicensesSortOrderEnum{
 "ASC":  ListJavaLicensesSortOrderAsc,
 "DESC": ListJavaLicensesSortOrderDesc,
}

var mappingListJavaLicensesSortOrderEnumLowerCase = map[string]ListJavaLicensesSortOrderEnum{
 "asc":
  ListJavaLicensesSortOrderAsc,
 "desc": ListJavaLicensesSortOrderDesc,
}

// GetListJavaLicensesSortOrderEnumValues Enumerates the set of values for ListJavaLicensesSortOrderEnum
func GetListJavaLicensesSortOrderEnumValues() []ListJavaLicensesSortOrderEnum {
 values := make([]ListJavaLicensesSortOrderEnum, 0)
 for _, v := range mappingListJavaLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListJavaLicensesSortOrderEnum
func GetListJavaLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListJavaLicensesSortOrderEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListJavaLicensesSortOrderEnum(val string) (ListJavaLicensesSortOrderEnum, bool) {
 enum, ok := mappingListJavaLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum,
 ok
}

// ListJavaLicensesSortByEnum Enum with underlying type: string
type ListJavaLicensesSortByEnum string

// Set of constants representing the allowable values for ListJavaLicensesSortByEnum
const (
 ListJavaLicensesSortByLicensetype ListJavaLicensesSortByEnum = "licenseType"
```

```
 ListJavaLicensesSortByDisplayname ListJavaLicensesSortByEnum = "displayName"
)

var mappingListJavaLicensesSortByEnum = map[string]ListJavaLicensesSortByEnum{
 "licenseType": ListJavaLicensesSortByLicensetype,
 "displayName": ListJavaLicensesSortByDisplayname,
}

var mappingListJavaLicensesSortByEnumLowerCase = map[string]ListJavaLicensesSortByEnum{
 "licensetype": ListJavaLicensesSortByLicensetype,
 "displayname": ListJavaLicensesSortByDisplayname,
}

// GetListJavaLicensesSortByEnumValues Enumerates the set of values for ListJavaLicensesSortByEnum
func GetListJavaLicensesSortByEnumValues() []ListJavaLicensesSortByEnum {
 values := make([]ListJavaLicensesSortByEnum, 0)
 for _, v := range mappingListJavaLicensesSortByEnum
 {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicensesSortByEnumStringValues Enumerates the set of values in String for
ListJavaLicensesSortByEnum
func GetListJavaLicensesSortByEnumStringValues() []string {
 return []string{
  "licenseType",
  "displayName",
 }
}

// GetMappingListJavaLicensesSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListJavaLicensesSortByEnum(val string) (ListJavaLicensesSortByEnum, bool) {
 enum, ok := mappingListJavaLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// This software is dual-licensed to you under the Universal Permissive License (UPL) 1.0 as shown at
https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
```

```
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseAcceptanceRecord User acceptance record for a Java license.
type JavaLicenseAcceptanceRecord struct {

 // The unique identifier for the acceptance record.
 Id *string `mandatory:"true" json:"id"`

 // Status of license acceptance.
 LicenseAcceptanceStatus LicenseAcceptanceStatusEnum `mandatory:"true" json:"licenseAcceptanceStatus"`

 //
 The tenancy OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the user accepting
the license.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // License type associated with the acceptance.
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 CreatedBy *Principal `mandatory:"true" json:"createdBy"`

 // The date and time of license acceptance (formatted according to RFC3339
(https://datatracker.ietf.org/doc/html/rfc3339)).
 TimeAccepted *common.SDKTime `mandatory:"true" json:"timeAccepted"`

 LastUpdatedBy *Principal `mandatory:"false" json:"lastUpdatedBy"`

 // The date and time of last update (formatted according to RFC3339 (https://datatracker.ietf.org/doc/html/rfc3339)).
 TimeLastUpdated *common.SDKTime `mandatory:"false" json:"timeLastUpdated"`

 // The current state of the JavaLicenseAcceptanceRecord.
 LifecycleState LifecycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

 // Simple key-value
 pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`. (See Managing Tags and Tag Namespaces
(https://docs.oracle.com/iaas/Content/Tagging/Concepts/understandingfreeformtags.htm).)
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
```

```
 // Example: `{"foo-namespace": {"bar-key": "value"}}`. (See Understanding Free-form Tags
(https://docs.oracle.com/iaas/Content/Tagging/Tasks/managingtagsandtagnamespaces.htm)).
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // System tags for this resource. Each key is predefined and scoped to a namespace.
 // For more information, see Resource Tags
(https://docs.oracle.com/iaas/Content/General/Concepts/resourcetags.htm).
 // System tags can be viewed by users, but can only be created by the system.
 // Example: `{"orcl-cloud":
 {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m JavaLicenseAcceptanceRecord) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseAcceptanceRecord) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseAcceptanceStatusEnum(string(m.LicenseAcceptanceStatus)); !ok &&
m.LicenseAcceptanceStatus != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseAcceptanceStatus: %s.
Supported values are: %s.", m.LicenseAcceptanceStatus,
strings.Join(GetLicenseAcceptanceStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage,
 fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are: %s.", m.LicenseType,
strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifecycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
// Copyright (c) 2016, 2018, 2025, Oracle and/or its affiliates.  All rights reserved.
// This software is dual-licensed to you under the Universal Permissive License (UPL) 1.0 as shown at
https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetJavaLicenseAcceptanceRecordRequest wrapper for the GetJavaLicenseAcceptanceRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/GetJavaLicenseAcceptanceRecord.go.html to see an example of how to use
GetJavaLicenseAcceptanceRecordRequest.
type GetJavaLicenseAcceptanceRecordRequest struct {

 // Unique Java license acceptance record identifier.
 JavaLicenseAcceptanceRecordId *string `mandatory:"true" contributesTo:"path"
name:"javaLicenseAcceptanceRecordId"`

 //
 The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetJavaLicenseAcceptanceRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetJavaLicenseAcceptanceRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}
```

```
// BinaryRequestBody implements the OCIRequest interface
func (request GetJavaLicenseAcceptanceRecordRequest)
 BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetJavaLicenseAcceptanceRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetJavaLicenseAcceptanceRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetJavaLicenseAcceptanceRecordResponse wrapper for the GetJavaLicenseAcceptanceRecord operation
type GetJavaLicenseAcceptanceRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The JavaLicenseAcceptanceRecord
 instance
 JavaLicenseAcceptanceRecord `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`
}

func (response GetJavaLicenseAcceptanceRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetJavaLicenseAcceptanceRecordResponse) HTTPResponse() *http.Response {
```

```
 return response.RawResponse
}
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// This software is dual-licensed to you under the Universal Permissive License (UPL) 1.0 as shown at
https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicense Details about a license type for Java.
type JavaLicense struct {

 // Commonly used name for the license type.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // License Type
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Publicly accessible license URL containing the detailed terms and conditions.
 LicenseUrl
 *string `mandatory:"true" json:"licenseUrl"`
}

func (m JavaLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
```

```
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// This software is dual-licensed to you under the Universal Permissive License (UPL) 1.0 as shown at
https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListJavaLicenseAcceptanceRecordsRequest wrapper for the ListJavaLicenseAcceptanceRecords operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/ListJavaLicenseAcceptanceRecords.go.html to see an example of how to use
ListJavaLicenseAcceptanceRecordsRequest.
type ListJavaLicenseAcceptanceRecordsRequest struct {

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the tenancy.
 CompartmentId *string `mandatory:"true"
 contributesTo:"query" name:"compartmentId"`

 // A filter to return only resources that match the user principal detail.
 // The search string can be any of the property values from the Principal object.
 // This object is used as a response datatype for the `createdBy` and `lastUpdatedBy` fields in applicable resource.
 SearchByUser *string `mandatory:"false" contributesTo:"query" name:"searchByUser"`

 // Unique Java license acceptance record identifier.
 Id *string `mandatory:"false" contributesTo:"query" name:"id"`

 // Unique Java license type.
 LicenseType ListJavaLicenseAcceptanceRecordsLicenseTypeEnum `mandatory:"false" contributesTo:"query"
name:"licenseType" omitEmpty:"true"`

 // The status of license acceptance.
```

```
 Status ListJavaLicenseAcceptanceRecordsStatusEnum `mandatory:"false" contributesTo:"query" name:"status"
omitEmpty:"true"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // The page token representing
 the page at which to start retrieving results. The token is usually retrieved from a previous list call.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The sort order, either 'asc' or 'desc'.
 SortOrder ListJavaLicenseAcceptanceRecordsSortOrderEnum `mandatory:"false" contributesTo:"query"
name:"sortOrder" omitEmpty:"true"`

 // The field to sort by. If no value is specified, _timeAccepted_ is the default.
 SortBy ListJavaLicenseAcceptanceRecordsSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListJavaLicenseAcceptanceRecordsRequest) String() string {
 return common.PointerString(request)
}

//
 HTTPRequest implements the OCIRequest interface
func (request ListJavaLicenseAcceptanceRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListJavaLicenseAcceptanceRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false
```

```
}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListJavaLicenseAcceptanceRecordsRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called
 during constructing API request process
// Not recommended for calling this function directly
func (request ListJavaLicenseAcceptanceRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum(string(request.LicenseType)); !ok &&
request.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", request.LicenseType, strings.Join(GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumStringValues(),
",")))
 }
 if _, ok := GetMappingListJavaLicenseAcceptanceRecordsStatusEnum(string(request.Status)); !ok &&
request.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
request.Status, strings.Join(GetListJavaLicenseAcceptanceRecordsStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListJavaLicenseAcceptanceRecordsSortOrderEnum(string(request.SortOrder));
 !ok && request.SortOrder != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListJavaLicenseAcceptanceRecordsSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListJavaLicenseAcceptanceRecordsSortByEnum(string(request.SortBy)); !ok &&
request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListJavaLicenseAcceptanceRecordsSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListJavaLicenseAcceptanceRecordsResponse wrapper for the ListJavaLicenseAcceptanceRecords operation
type ListJavaLicenseAcceptanceRecordsResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of JavaLicenseAcceptanceRecordCollection instances
```

```
 JavaLicenseAcceptanceRecordCollection
 `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For list pagination. When this header appears in the response, additional pages of results remain.
 // Include this value as the `page` parameter for the subsequent GET request to get the next batch of items.
 // For important details about how pagination works, see List Pagination
(https://docs.oracle.com/iaas/Content/API/Concepts/usingapi.htm#nine).
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListJavaLicenseAcceptanceRecordsResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListJavaLicenseAcceptanceRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListJavaLicenseAcceptanceRecordsLicenseTypeEnum
 Enum with underlying type: string
type ListJavaLicenseAcceptanceRecordsLicenseTypeEnum string

// Set of constants representing the allowable values for ListJavaLicenseAcceptanceRecordsLicenseTypeEnum
const (
 ListJavaLicenseAcceptanceRecordsLicenseTypeOtn        ListJavaLicenseAcceptanceRecordsLicenseTypeEnum =
"OTN"
 ListJavaLicenseAcceptanceRecordsLicenseTypeNftc       ListJavaLicenseAcceptanceRecordsLicenseTypeEnum =
"NFTC"
 ListJavaLicenseAcceptanceRecordsLicenseTypeRestricted ListJavaLicenseAcceptanceRecordsLicenseTypeEnum =
"RESTRICTED"
)

var mappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum =
map[string]ListJavaLicenseAcceptanceRecordsLicenseTypeEnum{
 "OTN":        ListJavaLicenseAcceptanceRecordsLicenseTypeOtn,
 "NFTC":       ListJavaLicenseAcceptanceRecordsLicenseTypeNftc,
 "RESTRICTED": ListJavaLicenseAcceptanceRecordsLicenseTypeRestricted,
}

var mappingListJavaLicenseAcceptanceRecordsLicenseTypeEnumLowerCase =
map[string]ListJavaLicenseAcceptanceRecordsLicenseTypeEnum{
 "otn":
```

```
        ListJavaLicenseAcceptanceRecordsLicenseTypeOtn,
 "nftc":       ListJavaLicenseAcceptanceRecordsLicenseTypeNftc,
 "restricted": ListJavaLicenseAcceptanceRecordsLicenseTypeRestricted,
}

// GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumValues Enumerates the set of values for
ListJavaLicenseAcceptanceRecordsLicenseTypeEnum
func GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumValues()
[]ListJavaLicenseAcceptanceRecordsLicenseTypeEnum {
 values := make([]ListJavaLicenseAcceptanceRecordsLicenseTypeEnum, 0)
 for _, v := range mappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumStringValues Enumerates the set of values in String for
ListJavaLicenseAcceptanceRecordsLicenseTypeEnum
func GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumStringValues() []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum
 performs case Insensitive comparison on enum value and return the desired enum
func GetMappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum(val string)
(ListJavaLicenseAcceptanceRecordsLicenseTypeEnum, bool) {
 enum, ok := mappingListJavaLicenseAcceptanceRecordsLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListJavaLicenseAcceptanceRecordsStatusEnum Enum with underlying type: string
type ListJavaLicenseAcceptanceRecordsStatusEnum string

// Set of constants representing the allowable values for ListJavaLicenseAcceptanceRecordsStatusEnum
const (
 ListJavaLicenseAcceptanceRecordsStatusAccepted ListJavaLicenseAcceptanceRecordsStatusEnum =
"ACCEPTED"
 ListJavaLicenseAcceptanceRecordsStatusRevoked  ListJavaLicenseAcceptanceRecordsStatusEnum = "REVOKED"
)

var mappingListJavaLicenseAcceptanceRecordsStatusEnum =
map[string]ListJavaLicenseAcceptanceRecordsStatusEnum{
 "ACCEPTED": ListJavaLicenseAcceptanceRecordsStatusAccepted,
 "REVOKED":
```

```
  ListJavaLicenseAcceptanceRecordsStatusRevoked,
}

var mappingListJavaLicenseAcceptanceRecordsStatusEnumLowerCase =
map[string]ListJavaLicenseAcceptanceRecordsStatusEnum{
 "accepted": ListJavaLicenseAcceptanceRecordsStatusAccepted,
 "revoked":  ListJavaLicenseAcceptanceRecordsStatusRevoked,
}

// GetListJavaLicenseAcceptanceRecordsStatusEnumValues Enumerates the set of values for
ListJavaLicenseAcceptanceRecordsStatusEnum
func GetListJavaLicenseAcceptanceRecordsStatusEnumValues() []ListJavaLicenseAcceptanceRecordsStatusEnum
{
 values := make([]ListJavaLicenseAcceptanceRecordsStatusEnum, 0)
 for _, v := range mappingListJavaLicenseAcceptanceRecordsStatusEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicenseAcceptanceRecordsStatusEnumStringValues Enumerates the set of values in String for
ListJavaLicenseAcceptanceRecordsStatusEnum
func GetListJavaLicenseAcceptanceRecordsStatusEnumStringValues() []string {
 return []string{
  "ACCEPTED",
  "REVOKED",
 }
}

//
 GetMappingListJavaLicenseAcceptanceRecordsStatusEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListJavaLicenseAcceptanceRecordsStatusEnum(val string)
(ListJavaLicenseAcceptanceRecordsStatusEnum, bool) {
 enum, ok := mappingListJavaLicenseAcceptanceRecordsStatusEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListJavaLicenseAcceptanceRecordsSortOrderEnum Enum with underlying type: string
type ListJavaLicenseAcceptanceRecordsSortOrderEnum string

// Set of constants representing the allowable values for ListJavaLicenseAcceptanceRecordsSortOrderEnum
const (
 ListJavaLicenseAcceptanceRecordsSortOrderAsc  ListJavaLicenseAcceptanceRecordsSortOrderEnum = "ASC"
 ListJavaLicenseAcceptanceRecordsSortOrderDesc ListJavaLicenseAcceptanceRecordsSortOrderEnum = "DESC"
)

var mappingListJavaLicenseAcceptanceRecordsSortOrderEnum =
```

```
map[string]ListJavaLicenseAcceptanceRecordsSortOrderEnum{
 "ASC":  ListJavaLicenseAcceptanceRecordsSortOrderAsc,
 "DESC":
 ListJavaLicenseAcceptanceRecordsSortOrderDesc,
}

var mappingListJavaLicenseAcceptanceRecordsSortOrderEnumLowerCase =
map[string]ListJavaLicenseAcceptanceRecordsSortOrderEnum{
 "asc":  ListJavaLicenseAcceptanceRecordsSortOrderAsc,
 "desc": ListJavaLicenseAcceptanceRecordsSortOrderDesc,
}

// GetListJavaLicenseAcceptanceRecordsSortOrderEnumValues Enumerates the set of values for
ListJavaLicenseAcceptanceRecordsSortOrderEnum
func GetListJavaLicenseAcceptanceRecordsSortOrderEnumValues()
[]ListJavaLicenseAcceptanceRecordsSortOrderEnum {
 values := make([]ListJavaLicenseAcceptanceRecordsSortOrderEnum, 0)
 for _, v := range mappingListJavaLicenseAcceptanceRecordsSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicenseAcceptanceRecordsSortOrderEnumStringValues Enumerates the set of values in String for
ListJavaLicenseAcceptanceRecordsSortOrderEnum
func GetListJavaLicenseAcceptanceRecordsSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

//
 GetMappingListJavaLicenseAcceptanceRecordsSortOrderEnum performs case Insensitive comparison on enum
value and return the desired enum
func GetMappingListJavaLicenseAcceptanceRecordsSortOrderEnum(val string)
(ListJavaLicenseAcceptanceRecordsSortOrderEnum, bool) {
 enum, ok := mappingListJavaLicenseAcceptanceRecordsSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListJavaLicenseAcceptanceRecordsSortByEnum Enum with underlying type: string
type ListJavaLicenseAcceptanceRecordsSortByEnum string

// Set of constants representing the allowable values for ListJavaLicenseAcceptanceRecordsSortByEnum
const (
 ListJavaLicenseAcceptanceRecordsSortByTimeaccepted          ListJavaLicenseAcceptanceRecordsSortByEnum =
"timeAccepted"
```

```
 ListJavaLicenseAcceptanceRecordsSortByTimelastupdated        ListJavaLicenseAcceptanceRecordsSortByEnum =
"timeLastUpdated"
 ListJavaLicenseAcceptanceRecordsSortByLicenseacceptancestatus
ListJavaLicenseAcceptanceRecordsSortByEnum
 = "licenseAcceptanceStatus"
)

var mappingListJavaLicenseAcceptanceRecordsSortByEnum =
map[string]ListJavaLicenseAcceptanceRecordsSortByEnum{
 "timeAccepted":            ListJavaLicenseAcceptanceRecordsSortByTimeaccepted,
 "timeLastUpdated":         ListJavaLicenseAcceptanceRecordsSortByTimelastupdated,
 "licenseAcceptanceStatus": ListJavaLicenseAcceptanceRecordsSortByLicenseacceptancestatus,
}

var mappingListJavaLicenseAcceptanceRecordsSortByEnumLowerCase =
map[string]ListJavaLicenseAcceptanceRecordsSortByEnum{
 "timeaccepted":            ListJavaLicenseAcceptanceRecordsSortByTimeaccepted,
 "timelastupdated":         ListJavaLicenseAcceptanceRecordsSortByTimelastupdated,
 "licenseacceptancestatus": ListJavaLicenseAcceptanceRecordsSortByLicenseacceptancestatus,
}

// GetListJavaLicenseAcceptanceRecordsSortByEnumValues Enumerates the set of values for
ListJavaLicenseAcceptanceRecordsSortByEnum
func GetListJavaLicenseAcceptanceRecordsSortByEnumValues()
[]ListJavaLicenseAcceptanceRecordsSortByEnum
 {
 values := make([]ListJavaLicenseAcceptanceRecordsSortByEnum, 0)
 for _, v := range mappingListJavaLicenseAcceptanceRecordsSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicenseAcceptanceRecordsSortByEnumStringValues Enumerates the set of values in String for
ListJavaLicenseAcceptanceRecordsSortByEnum
func GetListJavaLicenseAcceptanceRecordsSortByEnumStringValues() []string {
 return []string{
  "timeAccepted",
  "timeLastUpdated",
  "licenseAcceptanceStatus",
 }
}

// GetMappingListJavaLicenseAcceptanceRecordsSortByEnum performs case Insensitive comparison on enum
value and return the desired enum
func GetMappingListJavaLicenseAcceptanceRecordsSortByEnum(val string)
(ListJavaLicenseAcceptanceRecordsSortByEnum, bool) {
 enum, ok := mappingListJavaLicenseAcceptanceRecordsSortByEnumLowerCase[strings.ToLower(val)]
```

```
 return enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and service
limits, see Tagging (https://docs.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and Service
Limits (https://docs.oracle.com/iaas/Content/General/Concepts/servicelimits.htm). For
 information about creating, modifying, and deleting identity domains, see Identity and Access Management (with
identity domains) (https://docs.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ChangeTasDomainLicenseTypeDetails (For tenancies that support identity domains) Update the identity domain
license type.
type ChangeTasDomainLicenseTypeDetails struct {

 // The license type of the identity domain.
 LicenseType *string `mandatory:"false" json:"licenseType"`
}

func (m ChangeTasDomainLicenseTypeDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ChangeTasDomainLicenseTypeDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return
```

```
 true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "strings"
)

// HcxLicenseStatusEnum Enum with underlying type: string
type HcxLicenseStatusEnum string

// Set of constants representing the allowable values for HcxLicenseStatusEnum
const (
 HcxLicenseStatusAvailable   HcxLicenseStatusEnum = "AVAILABLE"
 HcxLicenseStatusConsumed    HcxLicenseStatusEnum = "CONSUMED"
 HcxLicenseStatusDeactivated HcxLicenseStatusEnum
 = "DEACTIVATED"
 HcxLicenseStatusDeleted     HcxLicenseStatusEnum = "DELETED"
)

var mappingHcxLicenseStatusEnum = map[string]HcxLicenseStatusEnum{
 "AVAILABLE":   HcxLicenseStatusAvailable,
 "CONSUMED":    HcxLicenseStatusConsumed,
 "DEACTIVATED": HcxLicenseStatusDeactivated,
 "DELETED":     HcxLicenseStatusDeleted,
}

var mappingHcxLicenseStatusEnumLowerCase = map[string]HcxLicenseStatusEnum{
 "available":   HcxLicenseStatusAvailable,
 "consumed":    HcxLicenseStatusConsumed,
 "deactivated": HcxLicenseStatusDeactivated,
 "deleted":     HcxLicenseStatusDeleted,
}
```

```
// GetHcxLicenseStatusEnumValues Enumerates the set of values for HcxLicenseStatusEnum
func GetHcxLicenseStatusEnumValues() []HcxLicenseStatusEnum {
 values := make([]HcxLicenseStatusEnum, 0)
 for _, v := range mappingHcxLicenseStatusEnum {
  values = append(values, v)
 }
 return values
}

// GetHcxLicenseStatusEnumStringValues Enumerates the set of values in String for HcxLicenseStatusEnum
func GetHcxLicenseStatusEnumStringValues()
 []string {
 return []string{
  "AVAILABLE",
  "CONSUMED",
  "DEACTIVATED",
  "DELETED",
 }
}

// GetMappingHcxLicenseStatusEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingHcxLicenseStatusEnum(val string) (HcxLicenseStatusEnum, bool) {
 enum, ok := mappingHcxLicenseStatusEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "strings"
)

// LicenseAcceptanceSortByEnum Enum with underlying type: string
type LicenseAcceptanceSortByEnum string
```

```
// Set of constants representing the allowable values for LicenseAcceptanceSortByEnum
const (
 LicenseAcceptanceSortByTimeAccepted            LicenseAcceptanceSortByEnum = "timeAccepted"
 LicenseAcceptanceSortByTimeLastUpdated         LicenseAcceptanceSortByEnum = "timeLastUpdated"
 LicenseAcceptanceSortByLicenseAcceptanceStatus
 LicenseAcceptanceSortByEnum = "licenseAcceptanceStatus"
)

var mappingLicenseAcceptanceSortByEnum = map[string]LicenseAcceptanceSortByEnum{
 "timeAccepted":            LicenseAcceptanceSortByTimeAccepted,
 "timeLastUpdated":         LicenseAcceptanceSortByTimeLastUpdated,
 "licenseAcceptanceStatus": LicenseAcceptanceSortByLicenseAcceptanceStatus,
}

var mappingLicenseAcceptanceSortByEnumLowerCase = map[string]LicenseAcceptanceSortByEnum{
 "timeaccepted":            LicenseAcceptanceSortByTimeAccepted,
 "timelastupdated":         LicenseAcceptanceSortByTimeLastUpdated,
 "licenseacceptancestatus": LicenseAcceptanceSortByLicenseAcceptanceStatus,
}

// GetLicenseAcceptanceSortByEnumValues Enumerates the set of values for LicenseAcceptanceSortByEnum
func GetLicenseAcceptanceSortByEnumValues() []LicenseAcceptanceSortByEnum {
 values := make([]LicenseAcceptanceSortByEnum, 0)
 for _, v := range mappingLicenseAcceptanceSortByEnum {
  values = append(values,
 v)
 }
 return values
}

// GetLicenseAcceptanceSortByEnumStringValues Enumerates the set of values in String for
LicenseAcceptanceSortByEnum
func GetLicenseAcceptanceSortByEnumStringValues() []string {
 return []string{
  "timeAccepted",
  "timeLastUpdated",
  "licenseAcceptanceStatus",
 }
}

// GetMappingLicenseAcceptanceSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingLicenseAcceptanceSortByEnum(val string) (LicenseAcceptanceSortByEnum, bool) {
 enum, ok := mappingLicenseAcceptanceSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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```

```
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// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseEnterpriseExtensibilityConfigSummary Summary of a LICENSE_ENTERPRISE_EXTENSIBILITY configuration.
type LicenseEnterpriseExtensibilityConfigSummary struct {

 // Unique identifier that is immutable on creation.
 Id *string `mandatory:"true" json:"id"`

 // Compartment Identifier.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // True if enterprise extensibility is enabled, false if it is not enabled.
 IsEnabled *bool `mandatory:"true"
 json:"isEnabled"`

 // Config Identifier, can be renamed.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // The time the the configuration was created. An RFC3339 formatted datetime string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the configuration was updated.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
```

```
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags
 map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`

 // The current state of the configuration.
 LifecycleState ConfigLifecycleStateEnum `mandatory:"true" json:"lifecycleState"`
}

// GetId returns Id
func (m LicenseEnterpriseExtensibilityConfigSummary) GetId() *string {
 return m.Id
}

// GetCompartmentId returns CompartmentId
func (m LicenseEnterpriseExtensibilityConfigSummary) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetDisplayName returns DisplayName
func (m LicenseEnterpriseExtensibilityConfigSummary) GetDisplayName() *string {
 return m.DisplayName
}

// GetTimeCreated returns TimeCreated
func (m LicenseEnterpriseExtensibilityConfigSummary) GetTimeCreated() *common.SDKTime {
 return m.TimeCreated
}

// GetTimeUpdated returns TimeUpdated
func (m LicenseEnterpriseExtensibilityConfigSummary) GetTimeUpdated() *common.SDKTime {
 return m.TimeUpdated
}

// GetLifecycleState returns LifecycleState
func (m LicenseEnterpriseExtensibilityConfigSummary)
 GetLifecycleState() ConfigLifecycleStateEnum {
 return m.LifecycleState
}

// GetFreeformTags returns FreeformTags
func (m LicenseEnterpriseExtensibilityConfigSummary) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
```

```
func (m LicenseEnterpriseExtensibilityConfigSummary) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

// GetSystemTags returns SystemTags
func (m LicenseEnterpriseExtensibilityConfigSummary) GetSystemTags() map[string]map[string]interface{} {
 return m.SystemTags
}

func (m LicenseEnterpriseExtensibilityConfigSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseEnterpriseExtensibilityConfigSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if
 _, ok := GetMappingConfigLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetConfigLifecycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m LicenseEnterpriseExtensibilityConfigSummary) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeLicenseEnterpriseExtensibilityConfigSummary LicenseEnterpriseExtensibilityConfigSummary
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeLicenseEnterpriseExtensibilityConfigSummary
 }{
  "LICENSE_ENTERPRISE_EXTENSIBILITY",
  (MarshalTypeLicenseEnterpriseExtensibilityConfigSummary)(m),
 }

 return json.Marshal(&s)
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ManageLicenseDetails License information for a given resource.
type ManageLicenseDetails struct {

 // License edition of the monitored resource.
 License LicenseTypeEnum `mandatory:"true" json:"license"`
}

func (m ManageLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this
 function directly
func (m ManageLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// License Manager API
```

```
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecordCollection The license record summary collection.
type LicenseRecordCollection struct {

 // The license record summary collection.
 Items []LicenseRecordSummary `mandatory:"true" json:"items"`
}

func (m LicenseRecordCollection) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecordCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//
```

```
package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseAcceptanceRecordSummary User acceptance record summary for a Java license.
type JavaLicenseAcceptanceRecordSummary struct {

 // The unique identifier for the acceptance record.
 Id *string `mandatory:"true" json:"id"`

 // Status of license acceptance.
 LicenseAcceptanceStatus LicenseAcceptanceStatusEnum `mandatory:"true" json:"licenseAcceptanceStatus"`

 //
 The tenancy OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the user accepting
the license.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // License type associated with the acceptance.
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 CreatedBy *Principal `mandatory:"true" json:"createdBy"`

 // The date and time of license acceptance (formatted according to RFC3339
(https://datatracker.ietf.org/doc/html/rfc3339)).
 TimeAccepted *common.SDKTime `mandatory:"true" json:"timeAccepted"`

 LastUpdatedBy *Principal `mandatory:"false" json:"lastUpdatedBy"`

 // The date and time of last update (formatted according to RFC3339 (https://datatracker.ietf.org/doc/html/rfc3339)).
 TimeLastUpdated *common.SDKTime `mandatory:"false" json:"timeLastUpdated"`

 // The current state of the JavaLicenseAcceptanceRecord.
 LifecycleState LifecycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

 //
 Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`. (See Managing Tags and Tag Namespaces
(https://docs.oracle.com/iaas/Content/Tagging/Concepts/understandingfreeformtags.htm).)
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`. (See Understanding Free-form Tags
```

```
(https://docs.oracle.com/iaas/Content/Tagging/Tasks/managingtagsandtagnamespaces.htm)).
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // System tags for this resource. Each key is predefined and scoped to a namespace.
 // For more information, see Resource Tags
(https://docs.oracle.com/iaas/Content/General/Concepts/resourcetags.htm).
 // System tags can be viewed by users, but can only be created by the system.
 //
 Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m JavaLicenseAcceptanceRecordSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseAcceptanceRecordSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseAcceptanceStatusEnum(string(m.LicenseAcceptanceStatus)); !ok &&
m.LicenseAcceptanceStatus != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseAcceptanceStatus: %s.
Supported values are: %s.", m.LicenseAcceptanceStatus,
strings.Join(GetLicenseAcceptanceStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != ""
 {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifecycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListProductLicensesRequest wrapper for the ListProductLicenses operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/ListProductLicenses.go.html
to see an example of how to use ListProductLicensesRequest.
type ListProductLicensesRequest struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for the
license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query"
 name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListProductLicensesSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which to sort
 the rules.
 // Default: `totalLicenseUnitsConsumed`
 // * **totalLicenseUnitsConsumed:** Sorts by totalLicenseUnitsConsumed of ProductLicense.
 SortBy ListProductLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
```

```
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListProductLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListProductLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody
 implements the OCIRequest interface
func (request ListProductLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListProductLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListProductLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListProductLicensesSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder !=
"" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListProductLicensesSortOrderEnumStringValues(),
 ",")))
 }
 if _, ok := GetMappingListProductLicensesSortByEnum(string(request.SortBy)); !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListProductLicensesSortByEnumStringValues(), ",")))
 }
```

```
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListProductLicensesResponse wrapper for the ListProductLicenses operation
type ListProductLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of ProductLicenseCollection instances
 ProductLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging
 through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListProductLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListProductLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListProductLicensesSortOrderEnum Enum with underlying type: string
type ListProductLicensesSortOrderEnum string

// Set of constants representing the allowable values for ListProductLicensesSortOrderEnum
const (
 ListProductLicensesSortOrderAsc  ListProductLicensesSortOrderEnum = "ASC"
 ListProductLicensesSortOrderDesc ListProductLicensesSortOrderEnum = "DESC"
)

var mappingListProductLicensesSortOrderEnum = map[string]ListProductLicensesSortOrderEnum{
 "ASC":
  ListProductLicensesSortOrderAsc,
 "DESC": ListProductLicensesSortOrderDesc,
```

```
}

var mappingListProductLicensesSortOrderEnumLowerCase = map[string]ListProductLicensesSortOrderEnum{
 "asc":  ListProductLicensesSortOrderAsc,
 "desc": ListProductLicensesSortOrderDesc,
}

// GetListProductLicensesSortOrderEnumValues Enumerates the set of values for
ListProductLicensesSortOrderEnum
func GetListProductLicensesSortOrderEnumValues() []ListProductLicensesSortOrderEnum {
 values := make([]ListProductLicensesSortOrderEnum, 0)
 for _, v := range mappingListProductLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListProductLicensesSortOrderEnum
func GetListProductLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListProductLicensesSortOrderEnum performs case Insensitive comparison on enum value and return
the desired
 enum
func GetMappingListProductLicensesSortOrderEnum(val string) (ListProductLicensesSortOrderEnum, bool) {
 enum, ok := mappingListProductLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListProductLicensesSortByEnum Enum with underlying type: string
type ListProductLicensesSortByEnum string

// Set of constants representing the allowable values for ListProductLicensesSortByEnum
const (
 ListProductLicensesSortByTotallicenseunitsconsumed ListProductLicensesSortByEnum =
"totalLicenseUnitsConsumed"
)

var mappingListProductLicensesSortByEnum = map[string]ListProductLicensesSortByEnum{
 "totalLicenseUnitsConsumed": ListProductLicensesSortByTotallicenseunitsconsumed,
}

var mappingListProductLicensesSortByEnumLowerCase = map[string]ListProductLicensesSortByEnum{
```

```
 "totallicenseunitsconsumed": ListProductLicensesSortByTotallicenseunitsconsumed,
}

// GetListProductLicensesSortByEnumValues Enumerates the set of values for ListProductLicensesSortByEnum
func GetListProductLicensesSortByEnumValues()
 []ListProductLicensesSortByEnum {
 values := make([]ListProductLicensesSortByEnum, 0)
 for _, v := range mappingListProductLicensesSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicensesSortByEnumStringValues Enumerates the set of values in String for
ListProductLicensesSortByEnum
func GetListProductLicensesSortByEnumStringValues() []string {
 return []string{
  "totalLicenseUnitsConsumed",
 }
}

// GetMappingListProductLicensesSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListProductLicensesSortByEnum(val string) (ListProductLicensesSortByEnum, bool) {
 enum, ok := mappingListProductLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)
```

```
// VsphereLicense License for vSphere upgrade.
type VsphereLicense struct {

 // vSphere license type.
 LicenseType *string `mandatory:"true" json:"licenseType"`

 // vSphere license key value.
 LicenseKey *string `mandatory:"true" json:"licenseKey"`
}

func (m VsphereLicense) String()
 string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m VsphereLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
```

```
const (
 LicenseTypeOtn        LicenseTypeEnum = "OTN"
 LicenseTypeNftc       LicenseTypeEnum = "NFTC"
 LicenseTypeRestricted LicenseTypeEnum = "RESTRICTED"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "OTN":        LicenseTypeOtn,
 "NFTC":
       LicenseTypeNftc,
 "RESTRICTED": LicenseTypeRestricted,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "otn":        LicenseTypeOtn,
 "nftc":       LicenseTypeNftc,
 "restricted": LicenseTypeRestricted,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetLicenseMetricRequest wrapper for the GetLicenseMetric operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/GetLicenseMetric.go.html
to see an example of how to use GetLicenseMetricRequest.
type GetLicenseMetricRequest struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for the
license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 //
 The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetLicenseMetricRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetLicenseMetricRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if
 err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
```

```
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetLicenseMetricRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetLicenseMetricRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetLicenseMetricRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetLicenseMetricResponse
 wrapper for the GetLicenseMetric operation
type GetLicenseMetricResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseMetric instance
 LicenseMetric `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetLicenseMetricResponse) String() string {
 return common.PointerString(response)
}
```

```
// HTTPResponse implements the OCIResponse interface
func (response GetLicenseMetricResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateJavaLicenseAcceptanceRecordRequest wrapper for the CreateJavaLicenseAcceptanceRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/CreateJavaLicenseAcceptanceRecord.go.html to see an example of how to use
CreateJavaLicenseAcceptanceRecordRequest.
type CreateJavaLicenseAcceptanceRecordRequest struct {

 // Details for the new JavaLicenseAcceptanceRecord.
 CreateJavaLicenseAcceptanceRecordDetails `contributesTo:"body"`

 // A token that uniquely
 identifies a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations. For example, if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // might be rejected.
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateJavaLicenseAcceptanceRecordRequest) String() string {
```

```
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request
 CreateJavaLicenseAcceptanceRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateJavaLicenseAcceptanceRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateJavaLicenseAcceptanceRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this
 function directly
func (request CreateJavaLicenseAcceptanceRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// CreateJavaLicenseAcceptanceRecordResponse wrapper for the CreateJavaLicenseAcceptanceRecord operation
type CreateJavaLicenseAcceptanceRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The JavaLicenseAcceptanceRecord instance
```

```
 JavaLicenseAcceptanceRecord `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`
}

func (response CreateJavaLicenseAcceptanceRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse
 implements the OCIResponse interface
func (response CreateJavaLicenseAcceptanceRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteJavaLicenseAcceptanceRecordRequest wrapper for the DeleteJavaLicenseAcceptanceRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/DeleteJavaLicenseAcceptanceRecord.go.html to see an example of how to use
DeleteJavaLicenseAcceptanceRecordRequest.
type DeleteJavaLicenseAcceptanceRecordRequest struct {

 // Unique Java license acceptance record identifier.
 JavaLicenseAcceptanceRecordId *string `mandatory:"true" contributesTo:"path"
name:"javaLicenseAcceptanceRecordId"`

 //
```

```
 For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // ETag from a previous GET or POST response for that resource.
 // The resource will be updated or deleted only if the ETag you
 // provide matches the resource's current ETag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteJavaLicenseAcceptanceRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteJavaLicenseAcceptanceRecordRequest) HTTPRequest(method,
 path string, binaryRequestBody *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request,
error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteJavaLicenseAcceptanceRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteJavaLicenseAcceptanceRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
```

```
func (request DeleteJavaLicenseAcceptanceRecordRequest)
 ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteJavaLicenseAcceptanceRecordResponse wrapper for the DeleteJavaLicenseAcceptanceRecord operation
type DeleteJavaLicenseAcceptanceRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response DeleteJavaLicenseAcceptanceRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response DeleteJavaLicenseAcceptanceRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)
```

```
// CreateLicenseRecordDetails The details about the new license record.
type CreateLicenseRecordDetails struct {

 // License record name.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true"
 json:"isPerpetual"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The number of license units added by a user in a license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 //
 Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m CreateLicenseRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
```

```
func (m CreateLicenseRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateProductLicenseRequest wrapper for the CreateProductLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/CreateProductLicense.go.html to see an example of how to use
CreateProductLicenseRequest.
type CreateProductLicenseRequest struct {

 // Details for creating a new product license.
 CreateProductLicenseDetails `contributesTo:"body"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular
 request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or server error without
 // risk of executing that same action again. Retry tokens expire after 24 hours, but can be invalidated before
 // then due to conflicting operations (for example, if a resource has been deleted and purged from the system,
 // then a retry of the original creation request might be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
```

```
 RequestMetadata common.RequestMetadata
}

func (request CreateProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func
 (request CreateProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request
 CreateProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// CreateProductLicenseResponse wrapper for the CreateProductLicense operation
type CreateProductLicenseResponse struct {

 // The underlying http response
```

```
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of
 the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response CreateProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response CreateProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

// Identity and Access Management Data Plane API
//
// APIs for managing identity data plane services. For example, use this API to create a scoped-access security
token. To manage identity domains (for example, creating or deleting an identity domain) or to manage resources
(for example, users and groups) within the default identity domain, see IAM API
(https://docs.oracle.com/iaas/api/#/en/identity/).
//

package identitydataplane

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
```

```
 "strings"
)

// Permission The representation of Permission
type Permission struct {

 // The name of the permission.
 P *string `mandatory:"true"
 json:"p"`
}

func (m Permission) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m Permission) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// UpdateLicenseRecordRequest wrapper for the UpdateLicenseRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/UpdateLicenseRecord.go.html to see an example of how to use
UpdateLicenseRecordRequest.
```

```
type UpdateLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // Details to update a license record entity.
 UpdateLicenseRecordDetails `contributesTo:"body"`

 //
 For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest
 interface
func (request UpdateLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request UpdateLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
```

```
func (request UpdateLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func
 (request UpdateLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateLicenseRecordResponse wrapper for the UpdateLicenseRecord operation
type UpdateLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response UpdateLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateLicenseRecordResponse) HTTPResponse() *http.Response
 {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListProductLicenseConsumersRequest wrapper for the ListProductLicenseConsumers operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListProductLicenseConsumers.go.html to see an example of how to use
ListProductLicenseConsumersRequest.
type ListProductLicenseConsumersRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 used for the license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder
 ListProductLicenseConsumersSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `licenseUnitsRequired`
 // * **licenseUnitsRequired:** Sorts by licenseUnitsRequired of the Resource.
 SortBy ListProductLicenseConsumersSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
```

```
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListProductLicenseConsumersRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListProductLicenseConsumersRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if
 err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListProductLicenseConsumersRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool)
{

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListProductLicenseConsumersRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListProductLicenseConsumersRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListProductLicenseConsumersSortOrderEnum(string(request.SortOrder));
 !ok && request.SortOrder != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListProductLicenseConsumersSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListProductLicenseConsumersSortByEnum(string(request.SortBy)); !ok && request.SortBy
```

```
!= "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListProductLicenseConsumersSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListProductLicenseConsumersResponse wrapper for the ListProductLicenseConsumers operation
type ListProductLicenseConsumersResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of ProductLicenseConsumerCollection instances
 ProductLicenseConsumerCollection `presentIn:"body"`

 //
 Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListProductLicenseConsumersResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListProductLicenseConsumersResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListProductLicenseConsumersSortOrderEnum Enum with underlying type: string
type ListProductLicenseConsumersSortOrderEnum string

// Set of constants representing
 the allowable values for ListProductLicenseConsumersSortOrderEnum
const (
 ListProductLicenseConsumersSortOrderAsc  ListProductLicenseConsumersSortOrderEnum = "ASC"
 ListProductLicenseConsumersSortOrderDesc ListProductLicenseConsumersSortOrderEnum = "DESC"
)
```

```
var mappingListProductLicenseConsumersSortOrderEnum =
map[string]ListProductLicenseConsumersSortOrderEnum{
 "ASC":  ListProductLicenseConsumersSortOrderAsc,
 "DESC": ListProductLicenseConsumersSortOrderDesc,
}

var mappingListProductLicenseConsumersSortOrderEnumLowerCase =
map[string]ListProductLicenseConsumersSortOrderEnum{
 "asc":  ListProductLicenseConsumersSortOrderAsc,
 "desc": ListProductLicenseConsumersSortOrderDesc,
}

// GetListProductLicenseConsumersSortOrderEnumValues Enumerates the set of values for
ListProductLicenseConsumersSortOrderEnum
func GetListProductLicenseConsumersSortOrderEnumValues() []ListProductLicenseConsumersSortOrderEnum {
 values := make([]ListProductLicenseConsumersSortOrderEnum, 0)
 for _,
 v := range mappingListProductLicenseConsumersSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicenseConsumersSortOrderEnumStringValues Enumerates the set of values in String for
ListProductLicenseConsumersSortOrderEnum
func GetListProductLicenseConsumersSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListProductLicenseConsumersSortOrderEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListProductLicenseConsumersSortOrderEnum(val string)
(ListProductLicenseConsumersSortOrderEnum, bool) {
 enum, ok := mappingListProductLicenseConsumersSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListProductLicenseConsumersSortByEnum Enum with underlying type: string
type ListProductLicenseConsumersSortByEnum string

// Set of constants representing the allowable values for ListProductLicenseConsumersSortByEnum
const (
 ListProductLicenseConsumersSortByLicenseunitsrequired
```

```
 ListProductLicenseConsumersSortByEnum = "licenseUnitsRequired"
)

var mappingListProductLicenseConsumersSortByEnum = map[string]ListProductLicenseConsumersSortByEnum{
 "licenseUnitsRequired": ListProductLicenseConsumersSortByLicenseunitsrequired,
}

var mappingListProductLicenseConsumersSortByEnumLowerCase =
map[string]ListProductLicenseConsumersSortByEnum{
 "licenseunitsrequired": ListProductLicenseConsumersSortByLicenseunitsrequired,
}

// GetListProductLicenseConsumersSortByEnumValues Enumerates the set of values for
ListProductLicenseConsumersSortByEnum
func GetListProductLicenseConsumersSortByEnumValues() []ListProductLicenseConsumersSortByEnum {
 values := make([]ListProductLicenseConsumersSortByEnum, 0)
 for _, v := range mappingListProductLicenseConsumersSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicenseConsumersSortByEnumStringValues Enumerates the set of values in String for
ListProductLicenseConsumersSortByEnum
func
 GetListProductLicenseConsumersSortByEnumStringValues() []string {
 return []string{
  "licenseUnitsRequired",
 }
}

// GetMappingListProductLicenseConsumersSortByEnum performs case Insensitive comparison on enum value and
return the desired enum
func GetMappingListProductLicenseConsumersSortByEnum(val string)
(ListProductLicenseConsumersSortByEnum, bool) {
 enum, ok := mappingListProductLicenseConsumersSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
```
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).

```
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecord License record summary.
type LicenseRecord struct {

 // The license record OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The license record display name. Avoid entering confidential information.
 DisplayName
 *string `mandatory:"true" json:"displayName"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true" json:"isPerpetual"`

 // The current license record state.
 LifecycleState LifeCycleStateEnum `mandatory:"true" json:"lifecycleState"`

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) with which the
license record is associated.
 ProductLicenseId *string `mandatory:"false" json:"productLicenseId"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where the
license record is created.
 CompartmentId *string `mandatory:"false" json:"compartmentId"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // The number of license units added by the user for the given license record.
 // Default
 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
```

```
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The time the license record was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the license record was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"false" json:"licenseUnit,omitempty"`

 // The product license name with which
 the license record is associated.
 ProductLicense *string `mandatory:"false" json:"productLicense"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m LicenseRecord) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API
 request process
// Not recommended for calling this function directly
func (m LicenseRecord) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
```

```
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicense The product license details.
type ProductLicense struct {

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 where the product license is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`
```

```
// Specifies whether the vendor is Oracle or a third party.
IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

// License record name
DisplayName *string `mandatory:"true" json:"displayName"`

// Status description for the current product license status.
StatusDescription *string `mandatory:"false" json:"statusDescription"`

// The total number of licenses available for the product license, calculated by adding up all the license counts for
active license records associated with the product license.
TotalActiveLicenseUnitCount *int `mandatory:"false" json:"totalActiveLicenseUnitCount"`

// The current product license state.
LifecycleState LifeCycleStateEnum
`mandatory:"false" json:"lifecycleState,omitempty"`

// The number of license units consumed. Updated after each allocation run.
TotalLicenseUnitsConsumed *float64 `mandatory:"false" json:"totalLicenseUnitsConsumed"`

// The number of license records associated with the product license.
TotalLicenseRecordCount *int `mandatory:"false" json:"totalLicenseRecordCount"`

// The number of active license records associated with the product license.
ActiveLicenseRecordCount *int `mandatory:"false" json:"activeLicenseRecordCount"`

// Specifies whether or not the product license is oversubscribed.
IsOverSubscribed *bool `mandatory:"false" json:"isOverSubscribed"`

// Specifies if the license unit count is unlimited.
IsUnlimited *bool `mandatory:"false" json:"isUnlimited"`

// The vendor of the ProductLicense
VendorName *string `mandatory:"false" json:"vendorName"`

// The time the product license was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted
datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the product license was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

// The images associated with the product license.
Images []ImageResponse `mandatory:"false" json:"images"`

// Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
```

```
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags
 map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m ProductLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState));
 !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
```

```
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// TopUtilizedProductLicenseSummary A summary of the top utilized product licenses.
type TopUtilizedProductLicenseSummary struct {

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 ProductLicenseId *string `mandatory:"true" json:"productLicenseId"`

 //
 The product type.
 ProductType *string `mandatory:"true" json:"productType"`

 // The product license unit.
 UnitType LicenseUnitEnum `mandatory:"true" json:"unitType"`

 // Number of license units consumed.
 TotalUnitsConsumed *float64 `mandatory:"true" json:"totalUnitsConsumed"`

 // Total number of license units in the product license provided by the user.
 TotalLicenseUnitCount *int `mandatory:"true" json:"totalLicenseUnitCount"`

 // Specifies if the license unit count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`
}

func (m TopUtilizedProductLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m TopUtilizedProductLicenseSummary)
```

```
 ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseUnitEnum(string(m.UnitType)); !ok && m.UnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for UnitType: %s. Supported values are:
%s.", m.UnitType, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "strings"
)

// LicenseSortByEnum Enum with underlying type: string
type LicenseSortByEnum string

// Set of constants representing the allowable values for LicenseSortByEnum
const (
 LicenseSortByLicenseType LicenseSortByEnum = "licenseType"
 LicenseSortByDisplayName LicenseSortByEnum = "displayName"
)

var mappingLicenseSortByEnum = map[string]LicenseSortByEnum{
 "licenseType": LicenseSortByLicenseType,
 "displayName":
 LicenseSortByDisplayName,
}
```

```
var mappingLicenseSortByEnumLowerCase = map[string]LicenseSortByEnum{
 "licensetype": LicenseSortByLicenseType,
 "displayname": LicenseSortByDisplayName,
}

// GetLicenseSortByEnumValues Enumerates the set of values for LicenseSortByEnum
func GetLicenseSortByEnumValues() []LicenseSortByEnum {
 values := make([]LicenseSortByEnum, 0)
 for _, v := range mappingLicenseSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseSortByEnumStringValues Enumerates the set of values in String for LicenseSortByEnum
func GetLicenseSortByEnumStringValues() []string {
 return []string{
  "licenseType",
  "displayName",
 }
}

// GetMappingLicenseSortByEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingLicenseSortByEnum(val string) (LicenseSortByEnum, bool) {
 enum, ok := mappingLicenseSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// UpdateProductLicenseRequest wrapper for the UpdateProductLicense operation
//
// # See also
//
```

```
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/UpdateProductLicense.go.html to see an example of how to use
UpdateProductLicenseRequest.
type UpdateProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The list of images that needs to be updated.
 UpdateProductLicenseDetails
 `contributesTo:"body"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the
 OCIRequest interface
func (request UpdateProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request UpdateProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false
```

```
}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function
 directly
func (request UpdateProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateProductLicenseResponse wrapper for the UpdateProductLicense operation
type UpdateProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response UpdateProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateProductLicenseResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetJavaLicenseRequest wrapper for the GetJavaLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/jmsjavadownloads/GetJavaLicense.go.html
to see an example of how to use GetJavaLicenseRequest.
type GetJavaLicenseRequest struct {

 // Unique Java license type.
 LicenseType GetJavaLicenseLicenseTypeEnum `mandatory:"true" contributesTo:"path" name:"licenseType"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header"
 name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetJavaLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetJavaLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}
```

```
// BinaryRequestBody implements the OCIRequest interface
func (request GetJavaLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves
 the specified retry policy.
func (request GetJavaLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetJavaLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingGetJavaLicenseLicenseTypeEnum(string(request.LicenseType)); !ok &&
request.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", request.LicenseType, strings.Join(GetGetJavaLicenseLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetJavaLicenseResponse wrapper for the GetJavaLicense operation
type GetJavaLicenseResponse struct
 {

 // The underlying http response
 RawResponse *http.Response

 // The JavaLicense instance
 JavaLicense `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetJavaLicenseResponse) String() string {
 return common.PointerString(response)
}
```

```
// HTTPResponse implements the OCIResponse interface
func (response GetJavaLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// GetJavaLicenseLicenseTypeEnum Enum with underlying type: string
type GetJavaLicenseLicenseTypeEnum string

// Set of constants representing the allowable values for GetJavaLicenseLicenseTypeEnum
const (
 GetJavaLicenseLicenseTypeOtn        GetJavaLicenseLicenseTypeEnum = "OTN"
 GetJavaLicenseLicenseTypeNftc       GetJavaLicenseLicenseTypeEnum = "NFTC"
 GetJavaLicenseLicenseTypeRestricted GetJavaLicenseLicenseTypeEnum
 = "RESTRICTED"
)

var mappingGetJavaLicenseLicenseTypeEnum = map[string]GetJavaLicenseLicenseTypeEnum{
 "OTN":        GetJavaLicenseLicenseTypeOtn,
 "NFTC":       GetJavaLicenseLicenseTypeNftc,
 "RESTRICTED": GetJavaLicenseLicenseTypeRestricted,
}

var mappingGetJavaLicenseLicenseTypeEnumLowerCase = map[string]GetJavaLicenseLicenseTypeEnum{
 "otn":        GetJavaLicenseLicenseTypeOtn,
 "nftc":       GetJavaLicenseLicenseTypeNftc,
 "restricted": GetJavaLicenseLicenseTypeRestricted,
}

// GetGetJavaLicenseLicenseTypeEnumValues Enumerates the set of values for GetJavaLicenseLicenseTypeEnum
func GetGetJavaLicenseLicenseTypeEnumValues() []GetJavaLicenseLicenseTypeEnum {
 values := make([]GetJavaLicenseLicenseTypeEnum, 0)
 for _, v := range mappingGetJavaLicenseLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetGetJavaLicenseLicenseTypeEnumStringValues Enumerates the set of values in String for
GetJavaLicenseLicenseTypeEnum
func GetGetJavaLicenseLicenseTypeEnumStringValues()
 []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}
```

```
// GetMappingGetJavaLicenseLicenseTypeEnum performs case Insensitive comparison on enum value and return
the desired enum
func GetMappingGetJavaLicenseLicenseTypeEnum(val string) (GetJavaLicenseLicenseTypeEnum, bool) {
 enum, ok := mappingGetJavaLicenseLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListTopUtilizedProductLicensesRequest wrapper for the ListTopUtilizedProductLicenses operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListTopUtilizedProductLicenses.go.html to see an example of how to use
ListTopUtilizedProductLicensesRequest.
type ListTopUtilizedProductLicensesRequest struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for the
license record, product license, and configuration.
 CompartmentId
 *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`
```

```
 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListTopUtilizedProductLicensesSortOrderEnum `mandatory:"false" contributesTo:"query"
name:"sortOrder"
 omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `totalLicenseUnitsConsumed`
 // * **totalLicenseUnitsConsumed:** Sorts by totalLicenseUnitsConsumed of ProductLicense.
 SortBy ListTopUtilizedProductLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListTopUtilizedProductLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListTopUtilizedProductLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method,
 path, request, extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListTopUtilizedProductLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListTopUtilizedProductLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
```

```
// Not recommended for calling this function directly
func (request ListTopUtilizedProductLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListTopUtilizedProductLicensesSortOrderEnum(string(request.SortOrder)); !ok &&
request.SortOrder != "" {
  errMessage = append(errMessage,
 fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are: %s.", request.SortOrder,
strings.Join(GetListTopUtilizedProductLicensesSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListTopUtilizedProductLicensesSortByEnum(string(request.SortBy)); !ok &&
request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListTopUtilizedProductLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListTopUtilizedProductLicensesResponse wrapper for the ListTopUtilizedProductLicenses operation
type ListTopUtilizedProductLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of TopUtilizedProductLicenseCollection instances
 TopUtilizedProductLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier
 for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListTopUtilizedProductLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListTopUtilizedProductLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
```

```
// ListTopUtilizedProductLicensesSortOrderEnum Enum with underlying type: string
type ListTopUtilizedProductLicensesSortOrderEnum string

// Set of constants representing the allowable values for ListTopUtilizedProductLicensesSortOrderEnum
const
 (
 ListTopUtilizedProductLicensesSortOrderAsc  ListTopUtilizedProductLicensesSortOrderEnum = "ASC"
 ListTopUtilizedProductLicensesSortOrderDesc ListTopUtilizedProductLicensesSortOrderEnum = "DESC"
)

var mappingListTopUtilizedProductLicensesSortOrderEnum =
map[string]ListTopUtilizedProductLicensesSortOrderEnum{
 "ASC":  ListTopUtilizedProductLicensesSortOrderAsc,
 "DESC": ListTopUtilizedProductLicensesSortOrderDesc,
}

var mappingListTopUtilizedProductLicensesSortOrderEnumLowerCase =
map[string]ListTopUtilizedProductLicensesSortOrderEnum{
 "asc":  ListTopUtilizedProductLicensesSortOrderAsc,
 "desc": ListTopUtilizedProductLicensesSortOrderDesc,
}

// GetListTopUtilizedProductLicensesSortOrderEnumValues Enumerates the set of values for
ListTopUtilizedProductLicensesSortOrderEnum
func GetListTopUtilizedProductLicensesSortOrderEnumValues() []ListTopUtilizedProductLicensesSortOrderEnum
{
 values := make([]ListTopUtilizedProductLicensesSortOrderEnum,
 0)
 for _, v := range mappingListTopUtilizedProductLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListTopUtilizedProductLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListTopUtilizedProductLicensesSortOrderEnum
func GetListTopUtilizedProductLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListTopUtilizedProductLicensesSortOrderEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListTopUtilizedProductLicensesSortOrderEnum(val string)
(ListTopUtilizedProductLicensesSortOrderEnum, bool) {
```

```
 enum, ok := mappingListTopUtilizedProductLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListTopUtilizedProductLicensesSortByEnum Enum with underlying type: string
type ListTopUtilizedProductLicensesSortByEnum string

// Set of constants representing the allowable values for ListTopUtilizedProductLicensesSortByEnum
const
 (
 ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed ListTopUtilizedProductLicensesSortByEnum =
"totalLicenseUnitsConsumed"
)

var mappingListTopUtilizedProductLicensesSortByEnum =
map[string]ListTopUtilizedProductLicensesSortByEnum{
 "totalLicenseUnitsConsumed": ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed,
}

var mappingListTopUtilizedProductLicensesSortByEnumLowerCase =
map[string]ListTopUtilizedProductLicensesSortByEnum{
 "totallicenseunitsconsumed": ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed,
}

// GetListTopUtilizedProductLicensesSortByEnumValues Enumerates the set of values for
ListTopUtilizedProductLicensesSortByEnum
func GetListTopUtilizedProductLicensesSortByEnumValues() []ListTopUtilizedProductLicensesSortByEnum {
 values := make([]ListTopUtilizedProductLicensesSortByEnum, 0)
 for _, v := range mappingListTopUtilizedProductLicensesSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListTopUtilizedProductLicensesSortByEnumStringValues
 Enumerates the set of values in String for ListTopUtilizedProductLicensesSortByEnum
func GetListTopUtilizedProductLicensesSortByEnumStringValues() []string {
 return []string{
  "totalLicenseUnitsConsumed",
 }
}

// GetMappingListTopUtilizedProductLicensesSortByEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListTopUtilizedProductLicensesSortByEnum(val string)
(ListTopUtilizedProductLicensesSortByEnum, bool) {
 enum, ok := mappingListTopUtilizedProductLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
```

}
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* Project home: https://github.com/stretchr/testify

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* Source code: https://github.com/golang/lint
* Project home: https://github.com/golang/lint

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flock

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* Project
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Version 2.0, January 2004

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// Code generated. DO NOT EDIT.

```
// GoldenGate API
//
// Use the Oracle Cloud Infrastructure GoldenGate APIs to perform data replication operations.
//

package goldengate

import (
 "strings"
)

// LicenseModelEnum Enum with underlying type: string
type LicenseModelEnum string

// Set of constants representing the allowable values for LicenseModelEnum
const (
 LicenseModelLicenseIncluded     LicenseModelEnum = "LICENSE_INCLUDED"
 LicenseModelBringYourOwnLicense LicenseModelEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseModelEnum = map[string]LicenseModelEnum{
 "LICENSE_INCLUDED":       LicenseModelLicenseIncluded,
 "BRING_YOUR_OWN_LICENSE": LicenseModelBringYourOwnLicense,
}
```

```
var
 mappingLicenseModelEnumLowerCase = map[string]LicenseModelEnum{
 "license_included":       LicenseModelLicenseIncluded,
 "bring_your_own_license": LicenseModelBringYourOwnLicense,
}

// GetLicenseModelEnumValues Enumerates the set of values for LicenseModelEnum
func GetLicenseModelEnumValues() []LicenseModelEnum {
 values := make([]LicenseModelEnum, 0)
 for _, v := range mappingLicenseModelEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseModelEnumStringValues Enumerates the set of values in String for LicenseModelEnum
func GetLicenseModelEnumStringValues() []string {
 return []string{
  "LICENSE_INCLUDED",
  "BRING_YOUR_OWN_LICENSE",
 }
}

// GetMappingLicenseModelEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingLicenseModelEnum(val string) (LicenseModelEnum, bool) {
 enum, ok := mappingLicenseModelEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)
```

```
// UpdateLicenseRecordDetails The details about updates in the license record.
type UpdateLicenseRecordDetails struct {

 // License record name.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true"
 json:"isPerpetual"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The number of license units added by a user in a license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 //
 Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateLicenseRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
```

```
// Not recommended for calling this function directly
func (m UpdateLicenseRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ChangeDomainLicenseTypeRequest wrapper for the ChangeDomainLicenseType operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/identity/ChangeDomainLicenseType.go.html to see an example of how to use
ChangeDomainLicenseTypeRequest.
type ChangeDomainLicenseTypeRequest struct {

 // The OCID of the identity domain.
 DomainId *string `mandatory:"true" contributesTo:"path" name:"domainId"`

 // The request object for an update to the license type of the identity domain.
 ChangeDomainLicenseTypeDetails
 `contributesTo:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations (e.g., if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
```

```
 // may be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated
 or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ChangeDomainLicenseTypeRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ChangeDomainLicenseTypeRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ChangeDomainLicenseTypeRequest)
 BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ChangeDomainLicenseTypeRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ChangeDomainLicenseTypeRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
```

```
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ChangeDomainLicenseTypeResponse wrapper for the ChangeDomainLicenseType operation
type ChangeDomainLicenseTypeResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the request.
 If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the work request.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`
}

func (response ChangeDomainLicenseTypeResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ChangeDomainLicenseTypeResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetProductLicenseRequest wrapper for the GetProductLicense operation
//
// # See also
//
```

```
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/GetProductLicense.go.html
to see an example of how to use GetProductLicenseRequest.
type GetProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about
 a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetProductLicenseRequest) BinaryRequestBody()
 (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
```

```
// Not recommended for calling this function directly
func (request GetProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetProductLicenseResponse wrapper for the GetProductLicense operation
type GetProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag
 *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateProductLicenseDetails Details for creating a new product license.
type CreateProductLicenseDetails struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where product
licenses are created.
 CompartmentId *string `mandatory:"true"
 json:"compartmentId"`

 // Specifies if the product license vendor is Oracle or a third party.
 IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

 // Name of the product license.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

 // The product license vendor name, for example: Microsoft, RHEL, and so on.
 VendorName *string `mandatory:"false" json:"vendorName"`

 // The image details associated with the product license.
 Images []ImageDetails `mandatory:"false" json:"images"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{}
 `mandatory:"false" json:"definedTags"`
}

func (m CreateProductLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
```

```
func (m CreateProductLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Analytics API
//
// Analytics API.
//

package analytics

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeLicenseIncluded     LicenseTypeEnum = "LICENSE_INCLUDED"
 LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "LICENSE_INCLUDED":       LicenseTypeLicenseIncluded,
 "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "license_included":
       LicenseTypeLicenseIncluded,
 "bring_your_own_license": LicenseTypeBringYourOwnLicense,
}
```

```
// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "LICENSE_INCLUDED",
  "BRING_YOUR_OWN_LICENSE",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteLicenseRecordRequest wrapper for the DeleteLicenseRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/DeleteLicenseRecord.go.html to see an example of how to use
DeleteLicenseRecordRequest.
type DeleteLicenseRecordRequest struct {

 // Unique license record identifier.
```

```
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle
 about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
 *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
```

```
func (request DeleteLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if
 len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteLicenseRecordResponse wrapper for the DeleteLicenseRecord operation
type DeleteLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response DeleteLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response DeleteLicenseRecordResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//
```

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseConsumerSummary Details of a resource that is consuming a particular product license.
type ProductLicenseConsumerSummary struct {

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the resource.
 ResourceId *string `mandatory:"true"
 json:"resourceId"`

 // The display name of the resource.
 ResourceName *string `mandatory:"true" json:"resourceName"`

 // The resource product name.
 ProductName *string `mandatory:"true" json:"productName"`

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the compartment that
contains the resource.
 ResourceCompartmentId *string `mandatory:"true" json:"resourceCompartmentId"`

 // The display name of the compartment that contains the resource.
 ResourceCompartmentName *string `mandatory:"true" json:"resourceCompartmentName"`

 // The unit type for the resource.
 ResourceUnitType ResourceUnitEnum `mandatory:"true" json:"resourceUnitType"`

 // Number of units of the resource
 ResourceUnitCount *float64 `mandatory:"true" json:"resourceUnitCount"`

 // The product license unit.
 LicenseUnitType LicenseUnitEnum `mandatory:"true" json:"licenseUnitType"`

 // Number of license units consumed by the resource.
 LicenseUnitsConsumed *float64 `mandatory:"true"
 json:"licenseUnitsConsumed"`

 // Specifies if the base license is available.
 IsBaseLicenseAvailable *bool `mandatory:"true" json:"isBaseLicenseAvailable"`

 // Specifies if all options are available.
 AreAllOptionsAvailable *bool `mandatory:"true" json:"areAllOptionsAvailable"`

 // Collection of missing product licenses.
```

```
 MissingProducts []Product `mandatory:"true" json:"missingProducts"`
}

func (m ProductLicenseConsumerSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseConsumerSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingResourceUnitEnum(string(m.ResourceUnitType)); !ok && m.ResourceUnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for ResourceUnitType:
 %s. Supported values are: %s.", m.ResourceUnitType, strings.Join(GetResourceUnitEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnitType)); !ok && m.LicenseUnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnitType: %s. Supported values
are: %s.", m.LicenseUnitType, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecordSummary The license record summary.
type LicenseRecordSummary struct {
```

```
// The license record OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
Id *string `mandatory:"true" json:"id"`

// License record display name. Avoid entering confidential
information.
DisplayName *string `mandatory:"true" json:"displayName"`

// Specifies if the license count is unlimited.
IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

// Specifies if the license record term is perpertual.
IsPerpetual *bool `mandatory:"true" json:"isPerpetual"`

// The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) with which the
license record is associated.
ProductLicenseId *string `mandatory:"false" json:"productLicenseId"`

// The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where the
license record is created.
CompartmentId *string `mandatory:"false" json:"compartmentId"`

// The license record product ID.
ProductId *string `mandatory:"false" json:"productId"`

// The number of license record units added by the user for the given license record.
// Default 1
LicenseCount *int `mandatory:"false" json:"licenseCount"`

// The license record end date
in RFC 3339 (https://tools.ietf.org/html/rfc3339) format.
// date format.
// Example: `2018-09-12`
ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

// The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339) format.
// date format.
// Example: `2018-09-12`
SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

// The time the license record was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the license record was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`
```

```
 // The current license record state.
 LifecycleState LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"false" json:"licenseUnit,omitempty"`

 //
 The product license name with which the license record is associated.
 ProductLicense *string `mandatory:"false" json:"productLicense"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m LicenseRecordSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
//
 This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecordSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateLicenseAutoAssignConfigDetails Change the details of a LICENSE_AUTO_ASSIGN configuration.
type UpdateLicenseAutoAssignConfigDetails struct {

 // The display name of the configuration.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false"
 json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // License edition.
 License LicenseTypeEnum `mandatory:"false" json:"license,omitempty"`
}

// GetDisplayName returns DisplayName
func (m UpdateLicenseAutoAssignConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetFreeformTags returns FreeformTags
func (m UpdateLicenseAutoAssignConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
```

```
}

// GetDefinedTags returns DefinedTags
func (m UpdateLicenseAutoAssignConfigDetails) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

func (m UpdateLicenseAutoAssignConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called
 during constructing API request process
// Not recommended for calling this function directly
func (m UpdateLicenseAutoAssignConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m UpdateLicenseAutoAssignConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeUpdateLicenseAutoAssignConfigDetails UpdateLicenseAutoAssignConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeUpdateLicenseAutoAssignConfigDetails
 }{
  "LICENSE_AUTO_ASSIGN",
  (MarshalTypeUpdateLicenseAutoAssignConfigDetails)(m),
 }

 return
 json.Marshal(&s)
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateLicenseRecordRequest wrapper for the CreateLicenseRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/CreateLicenseRecord.go.html to see an example of how to use
CreateLicenseRecordRequest.
type CreateLicenseRecordRequest struct {

 // Details needed to create a new license record.
 CreateLicenseRecordDetails `contributesTo:"body"`

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`

 //
 The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or server error without
 // risk of executing that same action again. Retry tokens expire after 24 hours, but can be invalidated before
 // then due to conflicting operations (for example, if a resource has been deleted and purged from the system,
 // then a retry of the original creation request might be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateLicenseRecordRequest)
 String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request CreateLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {
```

```
 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function
 is being called during constructing API request process
// Not recommended for calling this function directly
func (request CreateLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// CreateLicenseRecordResponse wrapper for the CreateLicenseRecord operation
type CreateLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`
```

```
 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request,
 please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response CreateLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response CreateLicenseRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// HcxLicenseSummary HCX on-premise license information summary.
type HcxLicenseSummary struct {

 // HCX on-premise license key value.
 ActivationKey *string `mandatory:"true" json:"activationKey"`

 // status of HCX on-premise license.
 Status HcxLicenseStatusEnum `mandatory:"true" json:"status"`
```

```
 //
 Name of the system that consumed the HCX on-premise license
 SystemName *string `mandatory:"false" json:"systemName"`
}

func (m HcxLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m HcxLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingHcxLicenseStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetHcxLicenseStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// RefreshHcxLicenseStatusRequest wrapper for the RefreshHcxLicenseStatus operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/ocvp/RefreshHcxLicenseStatus.go.html to
see an example of how to use RefreshHcxLicenseStatusRequest.
type RefreshHcxLicenseStatusRequest struct {

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the SDDC.
```

```
 SddcId *string `mandatory:"true" contributesTo:"path" name:"sddcId"`

 // A token that uniquely identifies a request
 so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations (for example, if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // may be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // etag from a previous GET or POST response for that resource.
 // The resource will be updated or deleted only if the etag you
 // provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Unique identifier for the request. If you need to contact Oracle about a particular
 // request, please provide the request ID.
 OpcRequestId
 *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request RefreshHcxLicenseStatusRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request RefreshHcxLicenseStatusRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request RefreshHcxLicenseStatusRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false
```

```
}

//
 RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request RefreshHcxLicenseStatusRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request RefreshHcxLicenseStatusRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// RefreshHcxLicenseStatusResponse wrapper for the RefreshHcxLicenseStatus operation
type RefreshHcxLicenseStatusResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query status of the
asynchronous operation.
 OpcWorkRequestId
 *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response RefreshHcxLicenseStatusResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response RefreshHcxLicenseStatusResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and service
limits, see Tagging (https://docs.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and Service
Limits (https://docs.oracle.com/iaas/Content/General/Concepts/servicelimits.htm). For
 information about creating, modifying, and deleting identity domains, see Identity and Access Management (with
identity domains) (https://docs.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// AllowedDomainLicenseTypeSummary (For tenancies that support identity domains) The
'AllowedDomainLicenseTypeSummary' object contains information about the license type of the identity domain.
type AllowedDomainLicenseTypeSummary struct {

 // The license type name.
 // Example: "Oracle Apps Premium"
 Name *string `mandatory:"true" json:"name"`

 // The license type identifier.
 // Example: "oracle-apps-premium"
 LicenseType *string `mandatory:"true" json:"licenseType"`

 // The license type description.
 Description *string `mandatory:"true" json:"description"`
}

func (m AllowedDomainLicenseTypeSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing
 an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m AllowedDomainLicenseTypeSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
```

```
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and service
limits, see Tagging (https://docs.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and Service
Limits (https://docs.oracle.com/iaas/Content/General/Concepts/servicelimits.htm). For
 information about creating, modifying, and deleting identity domains, see Identity and Access Management (with
identity domains) (https://docs.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ChangeDomainLicenseTypeDetails (For tenancies that support identity domains) Details for updating the license
type of the identity domain.
type ChangeDomainLicenseTypeDetails struct {

 // The license type of the identity domain.
 LicenseType *string `mandatory:"false" json:"licenseType"`
}

func (m ChangeDomainLicenseTypeDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ChangeDomainLicenseTypeDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
```

```
 if len(errMessage)
 > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseAutoAssignConfigDetails A configuration of the LICENSE_AUTO_ASSIGN type, consists of an
enumeration value which
// indicates which license should be assigned by default to new resources.
type LicenseAutoAssignConfigDetails struct {

 // The Unique Oracle ID (OCID) that is immutable on creation.
 Id *string `mandatory:"true" json:"id"`

 // The OCID of the compartment containing the configuration.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 //
 A user-friendly name. Does not have to be unique, and it's changeable. Avoid entering confidential information.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // The time the configuration was created. An RFC3339 formatted datetime string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the Config was updated.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`
```

```
 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud":
 {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`

 // The current state of the configuration.
 LifecycleState ConfigLifecycleStateEnum `mandatory:"true" json:"lifecycleState"`

 // License edition.
 License LicenseTypeEnum `mandatory:"true" json:"license"`
}

// GetId returns Id
func (m LicenseAutoAssignConfigDetails) GetId() *string {
 return m.Id
}

// GetCompartmentId returns CompartmentId
func (m LicenseAutoAssignConfigDetails) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetDisplayName returns DisplayName
func (m LicenseAutoAssignConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetTimeCreated returns TimeCreated
func (m LicenseAutoAssignConfigDetails) GetTimeCreated() *common.SDKTime {
 return m.TimeCreated
}

// GetTimeUpdated returns TimeUpdated
func (m LicenseAutoAssignConfigDetails) GetTimeUpdated() *common.SDKTime {
 return m.TimeUpdated
}

// GetLifecycleState returns
```

```
 LifecycleState
func (m LicenseAutoAssignConfigDetails) GetLifecycleState() ConfigLifecycleStateEnum {
 return m.LifecycleState
}

// GetFreeformTags returns FreeformTags
func (m LicenseAutoAssignConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m LicenseAutoAssignConfigDetails) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

// GetSystemTags returns SystemTags
func (m LicenseAutoAssignConfigDetails) GetSystemTags() map[string]map[string]interface{} {
 return m.SystemTags
}

func (m LicenseAutoAssignConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseAutoAssignConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok
 := GetMappingConfigLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetConfigLifecycleStateEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m LicenseAutoAssignConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeLicenseAutoAssignConfigDetails LicenseAutoAssignConfigDetails
```

```
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeLicenseAutoAssignConfigDetails
 }{
  "LICENSE_AUTO_ASSIGN",
  (MarshalTypeLicenseAutoAssignConfigDetails)(m),
 }

 return
 json.Marshal(&s)
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// BulkUploadLicenseRecordsRequest wrapper for the BulkUploadLicenseRecords operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/BulkUploadLicenseRecords.go.html to see an example of how to use
BulkUploadLicenseRecordsRequest.
type BulkUploadLicenseRecordsRequest struct {

 // Details required for the bulk upload of product licenses and license records.
 BulkUploadLicenseRecordsDetails `contributesTo:"body"`

 // The unique Oracle-assigned identifier for the
 request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}
```

```
func (request BulkUploadLicenseRecordsRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request BulkUploadLicenseRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func
 (request BulkUploadLicenseRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request BulkUploadLicenseRecordsRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request BulkUploadLicenseRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// BulkUploadLicenseRecordsResponse wrapper for the BulkUploadLicenseRecords operation
type BulkUploadLicenseRecordsResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The BulkUploadResponse
```

```
 instance
 BulkUploadResponse `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response BulkUploadLicenseRecordsResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response BulkUploadLicenseRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateLicenseAutoAssignConfigDetails The details of a LICENSE_AUTO_ASSIGN configuration.
type CreateLicenseAutoAssignConfigDetails struct {

 // Compartment in which the configuration is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // The display name of the configuration.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for
 cross-compatibility only.
 // Example: `{"bar-key": "value"}`
```

```
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // License edition.
 License LicenseTypeEnum `mandatory:"true" json:"license"`
}

// GetDisplayName returns DisplayName
func (m CreateLicenseAutoAssignConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetCompartmentId returns CompartmentId
func (m CreateLicenseAutoAssignConfigDetails) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetFreeformTags returns FreeformTags
func (m CreateLicenseAutoAssignConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m CreateLicenseAutoAssignConfigDetails) GetDefinedTags() map[string]map[string]interface{}
 {
 return m.DefinedTags
}

func (m CreateLicenseAutoAssignConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateLicenseAutoAssignConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
```

```
 return false, nil
}

// MarshalJSON marshals to json representation
func (m CreateLicenseAutoAssignConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeCreateLicenseAutoAssignConfigDetails
 CreateLicenseAutoAssignConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeCreateLicenseAutoAssignConfigDetails
 }{
  "LICENSE_AUTO_ASSIGN",
  (MarshalTypeCreateLicenseAutoAssignConfigDetails)(m),
 }

 return json.Marshal(&s)
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateLicenseEnterpriseExtensibilityConfigDetails The details of a LICENSE_ENTERPRISE_EXTENSIBILITY
configuration.
type CreateLicenseEnterpriseExtensibilityConfigDetails struct {

 // Compartment in which the configuration is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // True if enterprise extensibility is enabled, false if it is not enabled.
 IsEnabled *bool `mandatory:"true" json:"isEnabled"`

 // The display name of the configuration.
```

```
 DisplayName
 *string `mandatory:"false" json:"displayName"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

// GetDisplayName returns DisplayName
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetCompartmentId returns CompartmentId
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetFreeformTags returns FreeformTags
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

//
 GetDefinedTags returns DefinedTags
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

func (m CreateLicenseEnterpriseExtensibilityConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
```

```
}

// MarshalJSON marshals to json representation
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeCreateLicenseEnterpriseExtensibilityConfigDetails
CreateLicenseEnterpriseExtensibilityConfigDetails
 s := struct
 {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeCreateLicenseEnterpriseExtensibilityConfigDetails
 }{
  "LICENSE_ENTERPRISE_EXTENSIBILITY",
  (MarshalTypeCreateLicenseEnterpriseExtensibilityConfigDetails)(m),
 }

 return json.Marshal(&s)
}
```

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// Code generated. DO NOT EDIT.

```
// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// TopUtilizedProductLicenseCollection A collection of top utilized product licenses.
type TopUtilizedProductLicenseCollection struct {

 // Collection of top utilized product licenses.
 Items []TopUtilizedProductLicenseSummary `mandatory:"true" json:"items"`
}

func (m TopUtilizedProductLicenseCollection)
 String() string {
 return common.PointerString(m)
}
```

```
// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m TopUtilizedProductLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetLicenseRecordRequest wrapper for the GetLicenseRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/GetLicenseRecord.go.html
to see an example of how to use GetLicenseRecordRequest.
type GetLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 //
 particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}
```

```
func (request GetLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
 bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetLicenseRecordResponse wrapper for the GetLicenseRecord operation
type GetLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`
```

```
 // For optimistic concurrency control. See `if-match`.
 Etag *string
 `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetLicenseRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "strings"
)

// LicenseUnitEnum Enum with underlying type: string
type LicenseUnitEnum string

// Set of constants representing the allowable values for LicenseUnitEnum
const (
 LicenseUnitOcpu          LicenseUnitEnum = "OCPU"
 LicenseUnitNamedUserPlus LicenseUnitEnum = "NAMED_USER_PLUS"
 LicenseUnitProcessors    LicenseUnitEnum = "PROCESSORS"
)

var
```

```
 mappingLicenseUnitEnum = map[string]LicenseUnitEnum{
 "OCPU":            LicenseUnitOcpu,
 "NAMED_USER_PLUS": LicenseUnitNamedUserPlus,
 "PROCESSORS":      LicenseUnitProcessors,
}

var mappingLicenseUnitEnumLowerCase = map[string]LicenseUnitEnum{
 "ocpu":            LicenseUnitOcpu,
 "named_user_plus": LicenseUnitNamedUserPlus,
 "processors":      LicenseUnitProcessors,
}

// GetLicenseUnitEnumValues Enumerates the set of values for LicenseUnitEnum
func GetLicenseUnitEnumValues() []LicenseUnitEnum {
 values := make([]LicenseUnitEnum, 0)
 for _, v := range mappingLicenseUnitEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseUnitEnumStringValues Enumerates the set of values in String for LicenseUnitEnum
func GetLicenseUnitEnumStringValues() []string {
 return []string{
  "OCPU",
  "NAMED_USER_PLUS",
  "PROCESSORS",
 }
}

// GetMappingLicenseUnitEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseUnitEnum(val string)
 (LicenseUnitEnum, bool) {
 enum, ok := mappingLicenseUnitEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//
```

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// BulkUploadLicenseRecordsDetails Details required for bulk uploading of license records.
type BulkUploadLicenseRecordsDetails struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where license
records are created.
 CompartmentId *string
 `mandatory:"true" json:"compartmentId"`

 // Name of the file that is being uploaded.
 FileName *string `mandatory:"true" json:"fileName"`

 // The file to be uploaded.
 FileContent *string `mandatory:"true" json:"fileContent"`
}

func (m BulkUploadLicenseRecordsDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m BulkUploadLicenseRecordsDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package stackmonitoring

import (
```

```
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ManageLicenseRequest wrapper for the ManageLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/stackmonitoring/ManageLicense.go.html to
see an example of how to use ManageLicenseRequest.
type ManageLicenseRequest struct {

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of monitored resource.
 MonitoredResourceId *string `mandatory:"true" contributesTo:"path" name:"monitoredResourceId"`

 // New license information.
 ManageLicenseDetails
 `contributesTo:"body"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations. For example, if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // might be rejected.
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // etag from a previous GET or POST response for that resource.
 // The resource will be
 updated or deleted only if the etag you
 // provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ManageLicenseRequest) String() string {
 return common.PointerString(request)
}
```

```
// HTTPRequest implements the OCIRequest interface
func (request ManageLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ManageLicenseRequest) BinaryRequestBody()
 (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ManageLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ManageLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ManageLicenseResponse wrapper for the ManageLicense operation
type ManageLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide
 the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}
```

```
func (response ManageLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ManageLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateJavaLicenseAcceptanceRecordDetails The attributes to create a new JavaLicenseAcceptanceRecord.
type CreateJavaLicenseAcceptanceRecordDetails struct {

 // The tenancy OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the user accepting
the license.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 //
 License type for the Java version.
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Status of license acceptance.
 LicenseAcceptanceStatus LicenseAcceptanceStatusEnum `mandatory:"true" json:"licenseAcceptanceStatus"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`. (See Managing Tags and Tag Namespaces
(https://docs.oracle.com/iaas/Content/Tagging/Concepts/understandingfreeformtags.htm).)
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`
```

```
 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`. (See Understanding Free-form Tags
(https://docs.oracle.com/iaas/Content/Tagging/Tasks/managingtagsandtagnamespaces.htm)).
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m CreateJavaLicenseAcceptanceRecordDetails)
 String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateJavaLicenseAcceptanceRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseAcceptanceStatusEnum(string(m.LicenseAcceptanceStatus)); !ok &&
m.LicenseAcceptanceStatus != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseAcceptanceStatus: %s.
Supported values are: %s.", m.LicenseAcceptanceStatus,
strings.Join(GetLicenseAcceptanceStatusEnumStringValues(),
 ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateProductLicenseDetails Updates the product license object (only allows image updates).
type UpdateProductLicenseDetails struct {

 // The image details associated with the product license.
 Images []ImageDetails `mandatory:"true" json:"images"`

 // Simple key-value pair that is
 applied without any predefined name, type, or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateProductLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateProductLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Access Governance APIs
//
// Use the Oracle Access Governance API to create, view, and manage GovernanceInstances.
//
```

```
package accessgovernancecp

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeNewLicense          LicenseTypeEnum = "NEW_LICENSE"
 LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
 LicenseTypeAgOracleWorkloads   LicenseTypeEnum = "AG_ORACLE_WORKLOADS"
 LicenseTypeAgOci               LicenseTypeEnum = "AG_OCI"
)

var mappingLicenseTypeEnum
 = map[string]LicenseTypeEnum{
 "NEW_LICENSE":            LicenseTypeNewLicense,
 "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
 "AG_ORACLE_WORKLOADS":    LicenseTypeAgOracleWorkloads,
 "AG_OCI":                 LicenseTypeAgOci,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "new_license":            LicenseTypeNewLicense,
 "bring_your_own_license": LicenseTypeBringYourOwnLicense,
 "ag_oracle_workloads":    LicenseTypeAgOracleWorkloads,
 "ag_oci":                 LicenseTypeAgOci,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "NEW_LICENSE",
  "BRING_YOUR_OWN_LICENSE",
  "AG_ORACLE_WORKLOADS",
  "AG_OCI",
```

```
 }
}

//
 GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Content Management API
//
// Oracle Content Management is a cloud-based content hub to drive omni-channel content management and
accelerate experience delivery
//

package oce

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeNew     LicenseTypeEnum = "NEW"
 LicenseTypeByol    LicenseTypeEnum = "BYOL"
 LicenseTypePremium LicenseTypeEnum = "PREMIUM"
 LicenseTypeStarter LicenseTypeEnum = "STARTER"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "NEW":     LicenseTypeNew,
 "BYOL":
    LicenseTypeByol,
 "PREMIUM": LicenseTypePremium,
 "STARTER": LicenseTypeStarter,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "new":     LicenseTypeNew,
```

```
 "byol":    LicenseTypeByol,
 "premium": LicenseTypePremium,
 "starter": LicenseTypeStarter,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "NEW",
  "BYOL",
  "PREMIUM",
  "STARTER",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return
 enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListAllowedDomainLicenseTypesRequest wrapper for the ListAllowedDomainLicenseTypes operation
//
// # See also
```

```
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/identity/ListAllowedDomainLicenseTypes.go.html to see an example of how to use
ListAllowedDomainLicenseTypesRequest.
type ListAllowedDomainLicenseTypesRequest struct {

 // The license type of the identity domain.
 CurrentLicenseTypeName *string `mandatory:"false" contributesTo:"query" name:"currentLicenseTypeName"`

 // Unique Oracle-assigned
 identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListAllowedDomainLicenseTypesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListAllowedDomainLicenseTypesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements
 the OCIRequest interface
func (request ListAllowedDomainLicenseTypesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListAllowedDomainLicenseTypesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}
```

```
// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListAllowedDomainLicenseTypesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListAllowedDomainLicenseTypesResponse wrapper for the ListAllowedDomainLicenseTypes operation
type ListAllowedDomainLicenseTypesResponse struct {

 // The underlying http
 response
 RawResponse *http.Response

 // The []AllowedDomainLicenseTypeSummary instance
 Items []AllowedDomainLicenseTypeSummary `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListAllowedDomainLicenseTypesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListAllowedDomainLicenseTypesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// Marketplace Service API
//
```

```
// Use the Marketplace API to manage applications in Oracle Cloud Infrastructure Marketplace. For more
information, see Overview of Marketplace
(https://docs.oracle.com/iaas/Content/Marketplace/Concepts/marketoverview.htm)
//

package marketplace

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// Eula A base object for all types of end user license agreements.
type Eula interface {
}

type eula struct {
 JsonData []byte
 EulaType string `json:"eulaType"`
}

// UnmarshalJSON unmarshals json
func (m *eula) UnmarshalJSON(data []byte) error {
 m.JsonData = data
 type
 Unmarshalereula eula
 s := struct {
  Model Unmarshalereula
 }{}
 err := json.Unmarshal(data, &s.Model)
 if err != nil {
  return err
 }
 m.EulaType = s.Model.EulaType

 return err
}

// UnmarshalPolymorphicJSON unmarshals polymorphic json
func (m *eula) UnmarshalPolymorphicJSON(data []byte) (interface{}, error) {

 if data == nil || string(data) == "null" {
  return nil, nil
 }

 var err error
```

```
 switch m.EulaType {
 case "TEXT":
  mm := TextBasedEula{}
  err = json.Unmarshal(data, &mm)
  return mm, err
 default:
  common.Logf("Received unsupported enum value for Eula: %s.", m.EulaType)
  return *m, nil
 }
}

func (m eula) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m eula) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return
 true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseCollection Collection of the Java license summary objects.
```

```
type JavaLicenseCollection struct {

 // A list of JavaLicenseSummary objects.
 Items []JavaLicenseSummary `mandatory:"true" json:"items"`
}

func (m JavaLicenseCollection) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when
 providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// UpdateJavaLicenseAcceptanceRecordRequest wrapper for the UpdateJavaLicenseAcceptanceRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/UpdateJavaLicenseAcceptanceRecord.go.html to see an example of how to use
UpdateJavaLicenseAcceptanceRecordRequest.
type UpdateJavaLicenseAcceptanceRecordRequest struct {

 // Unique Java license acceptance record identifier.
 JavaLicenseAcceptanceRecordId *string `mandatory:"true" contributesTo:"path"
```

```
name:"javaLicenseAcceptanceRecordId"`

 //
 Attributes for updating the JavaLicenseAcceptanceRecord.
 UpdateJavaLicenseAcceptanceRecordDetails `contributesTo:"body"`

 // For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // ETag from a previous GET or POST response for that resource.
 // The resource will be updated or deleted only if the ETag you
 // provide matches the resource's current ETag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateJavaLicenseAcceptanceRecordRequest) String() string {
 return common.PointerString(request)
}

//
 HTTPRequest implements the OCIRequest interface
func (request UpdateJavaLicenseAcceptanceRecordRequest) HTTPRequest(method, path string,
binaryRequestBody *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request UpdateJavaLicenseAcceptanceRecordRequest) BinaryRequestBody()
(*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateJavaLicenseAcceptanceRecordRequest) RetryPolicy() *common.RetryPolicy {
```

```
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called
 during constructing API request process
// Not recommended for calling this function directly
func (request UpdateJavaLicenseAcceptanceRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateJavaLicenseAcceptanceRecordResponse wrapper for the UpdateJavaLicenseAcceptanceRecord operation
type UpdateJavaLicenseAcceptanceRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The JavaLicenseAcceptanceRecord instance
 JavaLicenseAcceptanceRecord `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`
}

func (response UpdateJavaLicenseAcceptanceRecordResponse)
 String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateJavaLicenseAcceptanceRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
```

```
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseCollection The product license summary collection.
type ProductLicenseCollection struct {

 // The product license summary collection.
 Items []ProductLicenseSummary `mandatory:"true" json:"items"`
}

func (m ProductLicenseCollection) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//
```

```
package jmsjavadownloads

import (
 "strings"
)

// LicenseAcceptanceStatusEnum Enum with underlying type: string
type LicenseAcceptanceStatusEnum string

// Set of constants representing the allowable values for LicenseAcceptanceStatusEnum
const (
 LicenseAcceptanceStatusAccepted LicenseAcceptanceStatusEnum = "ACCEPTED"
 LicenseAcceptanceStatusRevoked  LicenseAcceptanceStatusEnum = "REVOKED"
)

var mappingLicenseAcceptanceStatusEnum = map[string]LicenseAcceptanceStatusEnum{
 "ACCEPTED":
 LicenseAcceptanceStatusAccepted,
 "REVOKED":  LicenseAcceptanceStatusRevoked,
}

var mappingLicenseAcceptanceStatusEnumLowerCase = map[string]LicenseAcceptanceStatusEnum{
 "accepted": LicenseAcceptanceStatusAccepted,
 "revoked":  LicenseAcceptanceStatusRevoked,
}

// GetLicenseAcceptanceStatusEnumValues Enumerates the set of values for LicenseAcceptanceStatusEnum
func GetLicenseAcceptanceStatusEnumValues() []LicenseAcceptanceStatusEnum {
 values := make([]LicenseAcceptanceStatusEnum, 0)
 for _, v := range mappingLicenseAcceptanceStatusEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseAcceptanceStatusEnumStringValues Enumerates the set of values in String for
LicenseAcceptanceStatusEnum
func GetLicenseAcceptanceStatusEnumStringValues() []string {
 return []string{
  "ACCEPTED",
  "REVOKED",
 }
}

// GetMappingLicenseAcceptanceStatusEnum performs case Insensitive comparison on enum value and return the
desired enum
func
```

```
 GetMappingLicenseAcceptanceStatusEnum(val string) (LicenseAcceptanceStatusEnum, bool) {
 enum, ok := mappingLicenseAcceptanceStatusEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseEnterpriseExtensibilityConfigDetails A configuration of the LICENSE_ENTERPRISE_EXTENSIBILITY
type, consists of a boolean which determines
// whether enterprise extensibility is enabled.
type LicenseEnterpriseExtensibilityConfigDetails struct {

 // The Unique Oracle ID (OCID) that is immutable on creation.
 Id *string `mandatory:"true" json:"id"`

 // The OCID of the compartment containing the configuration.
 CompartmentId *string `mandatory:"true"
 json:"compartmentId"`

 // True if enterprise extensibility is enabled, false if it is not enabled.
 IsEnabled *bool `mandatory:"true" json:"isEnabled"`

 // A user-friendly name. Does not have to be unique, and it's changeable. Avoid entering confidential information.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // The time the configuration was created. An RFC3339 formatted datetime string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the Config was updated.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`
```

```
 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{}
 `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`

 // The current state of the configuration.
 LifecycleState ConfigLifecycleStateEnum `mandatory:"true" json:"lifecycleState"`
}

// GetId returns Id
func (m LicenseEnterpriseExtensibilityConfigDetails) GetId() *string {
 return m.Id
}

// GetCompartmentId returns CompartmentId
func (m LicenseEnterpriseExtensibilityConfigDetails) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetDisplayName returns DisplayName
func (m LicenseEnterpriseExtensibilityConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetTimeCreated returns TimeCreated
func (m LicenseEnterpriseExtensibilityConfigDetails) GetTimeCreated() *common.SDKTime {
 return m.TimeCreated
}

// GetTimeUpdated returns TimeUpdated
func (m
 LicenseEnterpriseExtensibilityConfigDetails) GetTimeUpdated() *common.SDKTime {
 return m.TimeUpdated
}

// GetLifecycleState returns LifecycleState
func (m LicenseEnterpriseExtensibilityConfigDetails) GetLifecycleState() ConfigLifecycleStateEnum {
 return m.LifecycleState
}
```

```
// GetFreeformTags returns FreeformTags
func (m LicenseEnterpriseExtensibilityConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m LicenseEnterpriseExtensibilityConfigDetails) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

// GetSystemTags returns SystemTags
func (m LicenseEnterpriseExtensibilityConfigDetails) GetSystemTags() map[string]map[string]interface{} {
 return m.SystemTags
}

func (m LicenseEnterpriseExtensibilityConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing
 API request process
// Not recommended for calling this function directly
func (m LicenseEnterpriseExtensibilityConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingConfigLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetConfigLifecycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m LicenseEnterpriseExtensibilityConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeLicenseEnterpriseExtensibilityConfigDetails LicenseEnterpriseExtensibilityConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeLicenseEnterpriseExtensibilityConfigDetails
 }{
  "LICENSE_ENTERPRISE_EXTENSIBILITY",
  (MarshalTypeLicenseEnterpriseExtensibilityConfigDetails)(m),
 }
```

```
 return
 json.Marshal(&s)
}
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// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseAutoAssignConfigSummary Summary of a LICENSE_AUTO_ASSIGN configuration.
type LicenseAutoAssignConfigSummary struct {

 // Unique identifier that is immutable on creation.
 Id *string `mandatory:"true" json:"id"`

 // Compartment Identifier.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // Config Identifier, can be renamed.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // The time the the configuration was created.
 An RFC3339 formatted datetime string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the configuration was updated.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
```

```
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`

 // The current state of the configuration.
 LifecycleState ConfigLifecycleStateEnum `mandatory:"true"
 json:"lifecycleState"`

 // License edition.
 License LicenseTypeEnum `mandatory:"true" json:"license"`
}

// GetId returns Id
func (m LicenseAutoAssignConfigSummary) GetId() *string {
 return m.Id
}

// GetCompartmentId returns CompartmentId
func (m LicenseAutoAssignConfigSummary) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetDisplayName returns DisplayName
func (m LicenseAutoAssignConfigSummary) GetDisplayName() *string {
 return m.DisplayName
}

// GetTimeCreated returns TimeCreated
func (m LicenseAutoAssignConfigSummary) GetTimeCreated() *common.SDKTime {
 return m.TimeCreated
}

// GetTimeUpdated returns TimeUpdated
func (m LicenseAutoAssignConfigSummary) GetTimeUpdated() *common.SDKTime {
 return m.TimeUpdated
}

// GetLifecycleState returns LifecycleState
func (m LicenseAutoAssignConfigSummary) GetLifecycleState() ConfigLifecycleStateEnum {
 return m.LifecycleState
}

// GetFreeformTags returns FreeformTags
func (m LicenseAutoAssignConfigSummary) GetFreeformTags()
```

```
 map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m LicenseAutoAssignConfigSummary) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

// GetSystemTags returns SystemTags
func (m LicenseAutoAssignConfigSummary) GetSystemTags() map[string]map[string]interface{} {
 return m.SystemTags
}

func (m LicenseAutoAssignConfigSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseAutoAssignConfigSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingConfigLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState,
 strings.Join(GetConfigLifecycleStateEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m LicenseAutoAssignConfigSummary) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeLicenseAutoAssignConfigSummary LicenseAutoAssignConfigSummary
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeLicenseAutoAssignConfigSummary
 }{
  "LICENSE_AUTO_ASSIGN",
  (MarshalTypeLicenseAutoAssignConfigSummary)(m),
```

```
 }

 return json.Marshal(&s)
}
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// Java Management Service Fleets API
//
// The APIs for the Fleet Management (https://docs.oracle.com/en-us/iaas/jms/doc/fleet-management.html) feature
of Java Management Service to monitor and manage the usage of Java in your enterprise. Use these APIs to manage
fleets, configure managed instances to report to fleets, and gain insights into the Java workloads running on these
instances by carrying out basic and advanced features.
//

package jms

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicense Information about a license type for Java.
type JavaLicense struct {

 // Commonly used name
 for the license type.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // License Type
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Publicly accessible license URL containing the detailed terms and conditions.
 LicenseUrl *string `mandatory:"true" json:"licenseUrl"`
}

func (m JavaLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicense) ValidateEnumValue() (bool, error) {
```

```
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are: %s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage,
 "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateLicenseEnterpriseExtensibilityConfigDetails Change the details of a LICENSE_ENTERPRISE_EXTENSIBILITY configuration.
type UpdateLicenseEnterpriseExtensibilityConfigDetails struct {

 // The display name of the configuration.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`
 FreeformTags
 map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
```

```
 // True if enterprise extensibility is enabled, false if it is not enabled.
 IsEnabled *bool `mandatory:"false" json:"isEnabled"`
}

// GetDisplayName returns DisplayName
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetFreeformTags returns FreeformTags
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) GetDefinedTags() map[string]map[string]interface{}
{
 return m.DefinedTags
}

func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeUpdateLicenseEnterpriseExtensibilityConfigDetails
UpdateLicenseEnterpriseExtensibilityConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeUpdateLicenseEnterpriseExtensibilityConfigDetails
 }{
  "LICENSE_ENTERPRISE_EXTENSIBILITY",
  (MarshalTypeUpdateLicenseEnterpriseExtensibilityConfigDetails)(m),
```

```
}

return json.Marshal(&s)
}
```

1.4764 chunkio 1.5.3

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1.4765 google-cloud-go v0.100.2

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
 client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

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```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 resp, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy()
 {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
```

```
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 resp, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_List() {
 ctx :=
 context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func
 ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
 However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient
```

```
 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

//
 Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
 fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string
```

```
 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licenseCodesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
```

```
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

//
 Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp,
 err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
```

```
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.LicenseCode{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if
 err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }
```

```
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.TestPermissionsResponse{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return
 rsp, nil
}
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
```

```
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods availaible from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
 (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient
```

```
 // The call options for this service.
 CallOptions
 *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
 (*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

```
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party
 partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces
 any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint
 string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 c := &licensesRESTClient{
  endpoint:   endpoint,
  httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
```

```
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
 err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.Operation{}
```

```
 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 op := &Operation{proto: rsp}
 return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v
 := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.License{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
```

```
 return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, _
 := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
 true}
 rsp := &computepb.Policy{}
```

```
 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if
 err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
```

```
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.Operation{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 op := &Operation{proto: rsp}
 return op, err
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available
 licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
   req.MaxResults = proto.Uint32(math.MaxInt32)
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, _ := url.Parse(c.endpoint)
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",
 req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
```

```
 if req != nil && req.OrderBy != nil {
  params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
  params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return nil, "", err
 }

 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }

 httpReq.Header["Content-Type"] = []string{"application/json"}
 httpRsp, err := c.httpClient.Do(httpReq)
 if err !=
nil {
  return nil, "", err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, "", err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, "", err
 }

 unm.Unmarshal(buf, resp)
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
```

```
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetMaxResults())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c
 *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }
```

```
 buf, err := ioutil.ReadAll(httpRsp.Body)
 if
 err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.Policy{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 httpReq,
 err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
  httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return nil, err
 }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
  return nil, err
 }

 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 rsp := &computepb.TestPermissionsResponse{}

 if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
 }
 return rsp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is
 the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
```

```
func (it *LicenseIterator) Next() (*computepb.License,
 error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

1.4766 sudo 1.9.9-1ubuntu2.5

1.4766.1 Available under license :

The following list of people, sorted by last name, have contributed
code or patches to this implementation of sudo since I began
maintaining it in 1993. This list is known to be incomplete--if
you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael

Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
Cheloha, Scott
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc

Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, Yoshifuji
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele

Jover, Guillem
Juhani, Timo
Kikuchi, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Mallayya, Sangamesh
Manner, Rbert
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Orbn, Lszl
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Pasteleurs, Frederic
Percival, Ted

Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
Sato, Yuichi
Snchez, Wilfredo
Sanders, Miguel
Sasaki, Kan
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger,
Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Spradling, Michael
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren

Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
Bogusz, Jakub
Buo-ren, Lin
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Fontenelle, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frdric
Hein, Jochen
Hufthammer, Karl Ove
Jerovek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Keeci, Mehmet
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob

Krznar, Tomislav
Marchal, Frdric
Margeviius, Algimantas
Maryanov, Pavel
Florentina Muat
Nurmi, Lauri
Nikoli, Miroslav
Nylander, Daniel
Pan, Yi-Jyun
Psa, Petr
Puente, Enol
Putanec, Boidar
Qun, Trn Ngc
Rasmussen, Sebastian
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
erbnescu, Daniel
Shahedany, Eshagh
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
r, Balzs
Uranga, Mikel Olasagasti
Vorotnikov, Artem
Wang, Wylmer
Yang, Boyuan

The following people designed the artwork used on the sudo website:

Shield
logo: Badger, Trent
Sandwich logo (inspired by xkcd): Stillman, Mark

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1.4767 sudo 1.9.15p5-3ubuntu5.24.04.1

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Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bos, Sander
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piete
Brown, Jerry
Burr, Michael E
Burton, Ross

Bussjaeger, Andreas
Calvin, Gary
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Chazelas, Stephane
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ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
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Gelman, Stephen
Gerraty, Simon J.
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Hayman, Randy M.
Henke, Joachim
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Knoble, Jim
Knox, Tim
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Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
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Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
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Manner, Rbert
Marchionna, Michael D.
Markham, Paul
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Meskes, Michael
Michael, David
Miller, Todd C.
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Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
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Pasteleurs, Frederic
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Perera, Andres
Peron, Christian S.J.
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Peterson, Toby
Petten, Diego Elio
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Plotnick, Alex
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Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
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Rowe, William A., Jr.
Roy, Alain
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The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
Blttermann, Mario
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Castro, Felipe
Cho, Seong-ho
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Garca-Fontes, Walter
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1.4768 google-cloud-go v0.110.7

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "math"
```

```
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier:
 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
```

```
  },
  GetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
```

```
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest,
 ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
 Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
```

```
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy
 gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like
 Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective
image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution
 This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
```

```
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions
}

// NewLicensesRESTClient creates a new licenses rest client.
//
//
 The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
```

```
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
//
 Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
```

```
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if
e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts
 = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource.
 May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party
partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers
 := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if
 e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
 url.QueryEscape(req.GetProject())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
```

```
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
  return err
 }

 buf, err := io.ReadAll(httpRsp.Body)
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err !=
nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32 {
```

```
 req.MaxResults = proto.Uint32(math.MaxInt32)
} else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
  return err
 }
 defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return
err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
```

```
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path
 != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
 error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e
 := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
```

```
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items    []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is the raw response for the current page.
 // It
 must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
```

```
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
 var item *computepb.License
 if
 err := it.nextFunc(); err != nil {
  return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}
```

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```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
```

```
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
```

```
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range
 values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown
 in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io"
 "net/http"
 "net/url"
```

```
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get                 []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google
 Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
```

```
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func
 (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
```

```
 (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

//
 NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
```

```
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return
 a specified license code. License codes are mirrored across all projects that have permissions to read the License
Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())
```

```
 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()

  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

```
// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by
 third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  httpRsp, err := c.httpClient.Do(httpReq)
  if err != nil {
   return err
  }
  defer httpRsp.Body.Close()
```

```
  if err = googleapi.CheckResponse(httpRsp); err != nil {
   return err
  }

  buf, err := io.ReadAll(httpRsp.Body)
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.4769 collector-internal-telemetry 0.128.0

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1.4770 open-telemetry-opentelemetry-collector-contrib-internal-exp-metrics 0.128.0

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1.4774 contrib-propagators-b3 1.36.0

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1.4787 gzip 1.12-1ubuntu3.1

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/* Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
```

```
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
```

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Version 3, 29 June 2007

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1.4790 kubernetes-yaml 1.5.0

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
```

```
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
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==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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1.4793 gnostic-models 0.7.0

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1.4796 go.yaml.in-yaml 2.4.2

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1.4797 fluxcd-pkg-apis-acl 0.7.0

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1.4799 fluxcd-source-controller-api 1.6.2

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1.4800 fluxcd-pkg-ssa 0.48.0

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1.4801 fluxcd-pkg-cache 0.9.0

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1.4802 fluxcd-pkg-tar 0.12.0

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1.4803 aws-sdk-go-v2-service-ecr 1.43.3

1.4803.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
   - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
```

```
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err =
```

```
addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return
err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if err = addSpanInitializeEnd(stack); err != nil {
 return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
```

```
 return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
DeleteLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
```

```
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
```

```
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
ListLicenses
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
```

```
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
```

```
//
This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
```

```
 the license.
 LicenseMetadata []types.Metadata

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if
 err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
```

```
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err
= addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
```

```
middleware.Before); err != nil {
 return err
 }
 if err = addRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
 return err
 }
 if err
 = addSpanInitializeEnd(stack); err != nil {
 return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
 return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CreateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
 err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
```

```
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options);
```

```
 err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err !=
nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err
```

```
 != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if
 err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
 //
 //   - ProductSKU
 //
```

```
//   - Fingerprint
//
//   - Status
Filters
[]types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
```

```
 return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack);
 err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListLicenses",
 }
}
```

DisassociateLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger

OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckoutBorrowLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint

```
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err
!= nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options);
 err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return
 nil
}
```

```
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
```

AWS SDK for Go

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AssociateLicense

Initialize stack step
- spanInitializeStart
- RegisterServiceMetadata
- legacyEndpointContextSetter
- SetLogger
- OperationInputValidation
- spanInitializeEnd

Serialize stack step
- spanBuildRequestStart
- setOperationInput
- ResolveEndpoint
- OperationSerializer

Build stack step
- ClientRequestID
- ComputeContentLength
- SetCredentialSourceMiddleware
- UserAgent
- AddTimeOffsetMiddleware
- RecursionDetection
- spanBuildRequestEnd

Finalize stack step
- spanRetryLoop
- Retry
- RetryMetricsHeader
- ResolveAuthScheme
- GetIdentity
- ResolveEndpointV2
- disableHTTPS
- ComputePayloadHash
- setLegacyContextSigningOptions
- Signing

Deserialize stack step
- AddRawResponseToMetadata
- ErrorCloseResponseBody
- CloseResponseBody
- ResponseErrorWrapper

```
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
```

```
// [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
//
// This member is required.
DigitalSignatureMethod types.DigitalSignatureMethod

// License entitlements. Partial checkouts are not supported.
//
// This member is required.
Entitlements []types.EntitlementData

// Amazon Resource Name (ARN) of the license. The license must use the borrow
// consumption configuration.
//
// This member is required.
LicenseArn *string

// Information about constraints.
CheckoutMetadata []types.Metadata

// Node ID.
NodeId *string

noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

// Information about constraints.
CheckoutMetadata []types.Metadata

// Allowed license entitlements.
EntitlementsAllowed
[]types.EntitlementData

// Date and time at which the license checkout expires.
Expiration *string

// Date and time at which the license checkout is issued.
IssuedAt *string

// Amazon Resource Name (ARN) of the license.
LicenseArn *string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string
```

```
 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
```

```
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options);
 err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
{
   "smithy": "2.0",
   "shapes": {
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
           "type": "integer"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
           "type": "long"
       },
       "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider": {
           "type": "operation",
           "input": {
               "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest"
           },
           "output": {
               "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse"
           },
           "errors": [
```

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions \n\t\t\tregistered to your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/DeregisterSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the subscription provider resource to deregister. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
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},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
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"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest"
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"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse"
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"errors": [
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
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{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetRegisteredSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. "
}
},
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",

"traits": {
"smithy.api#documentation": " The subscription provider for the BYOL registration resource specified \n\t\t\tin the request. "
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL \n\t\t\tregistration resource specified in the request. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " The status of the Linux subscription provider access token from the last \n\t\t\tsuccessful subscription data request. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The detailed message from your subscription provider token status. "
}
},
"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time License Manager retrieved subscription details \n\t\t\tfrom your registered third-party Linux subscription provider. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target":
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},

"errors": [
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings for your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"

},
"smithy.api#idempotent": {}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists
the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "

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                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }
            },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
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"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the license subscription that the instance uses. "
}
},
"OsVersion": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The operating system software version that runs on your instance. "
}
},

"SubscriptionProviderCreateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp when you registered
the third-party Linux subscription \n\t\t\tprovider for the subscription that the instance uses. "
}
},
"SubscriptionProviderUpdateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that the instance synced with the
registered \n\t\t\tthird-party Linux subscription provider. "
}
},
"DualSubscription": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Indicates that you have two different license subscriptions for
\n\t\t\tthe same software on your instance. "
}
},
"RegisteredWithSubscriptionProvider": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Indicates that your instance uses a BYOL license subscription from \n\t\t\ta
third-party Linux subscription provider that you've registered with License Manager. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux
subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},

"traits": {
"smithy.api#documentation":
" An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",

"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager,
you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",

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            "type": "Boolean"
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        "Endpoint": {
            "builtIn": "SDK::Endpoint",
            "required": false,
            "documentation": "Override the endpoint used to send this request",
            "type": "String"
        }
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    "rules": [
        {
            "conditions": [
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                    "fn": "isSet",
                    "argv": [
                        {
                            "ref": "Endpoint"
                        }
                    ]
                }
            ],
            "rules": [
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [
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                                    "ref": "UseFIPS"
                                },
                                true
                            ]
                        }

],
                    "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                    "type": "error"
                },
                {
                    "conditions": [],
                    "rules": [
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                            "conditions": [
                                {
                                    "fn": "booleanEquals",
                                    "argv": [
                                        {
                                            "ref": "UseDualStack"
```

```
                    },
                    true
                ]

}
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                "type": "error"
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            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },
                    "properties": {},
                    "headers": {}
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                "type": "endpoint"
            }
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},
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    "conditions": [],
    "rules": [
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            "conditions": [
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                    "fn": "isSet",
                    "argv": [
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                            "ref": "Region"
                        }
                    ]
                }
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            "rules": [
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                    "conditions": [
                        {

    "fn": "aws.partition",
                            "argv": [
```

```
                    {
                        "ref": "Region"
                    }
                ],
                "assign": "PartitionResult"
            }
        ],
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                        "fn": "booleanEquals",
                        "argv": [
                            {

                      "ref": "UseFIPS"
                            },
                            true
                        ]
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                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }

],
                "rules": [
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                                "fn": "booleanEquals",
                                "argv": [
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                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"

},
                                            "supportsFIPS"
                                        ]
                                    }
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                    ]
                },
                {
                    "fn": "booleanEquals",
                    "argv": [
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                            "fn": "getAttr",
                            "argv": [

                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
                    ]
                }
            ],
            "rules": [
                {
                    "conditions": [],

        "rules": [
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                            "conditions": [],
                            "endpoint": {
                                "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
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            "type": "tree"
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        {
            "conditions": [],
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one or both",

            "type": "error"
        }
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"type": "tree"
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"conditions": [
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},
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]
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"fn": "booleanEquals",
"argv": [
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"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
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"supportsFIPS"
]
},
true

]
}
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"conditions": [],
"rules": [
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"conditions": [],
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"headers": {}

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but this partition does not support FIPS",
    "type": "error"
}
],
"type": "tree"
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        "argv": [
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            },
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],
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                "argv": [
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                        "fn": "getAttr",
                        "argv": [
                            {

                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
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                    ]
                }
            ],
            "rules": [
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                    "conditions": [],
                    "rules": [

{
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                    ],
                    "type": "tree"

}
            ],
            "type": "tree"
        },
        {
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            "type": "error"
        }
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    "type": "tree"
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    "rules": [
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
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            }
        ],
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    },
    {
        "conditions": [],
        "error": "Invalid Configuration: Missing Region",
        "type": "error"
    }
],
"type": "tree"
}
]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"

  }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
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    },
    {
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{

"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},

"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-gov-east-1",
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"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
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"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-iso-east-1",
"UseFIPS": true,

"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS":
false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

```
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "error": "DualStack is enabled but this partition does not support DualStack"
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{

    "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
        }
    },
    "params": {
        "Region": "us-isob-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
        "endpoint": {
            "url": "https://example.com"
```

}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{

"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {

"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"

```
                }
            },
            {
                "documentation": "Missing region",
                "expect": {
                    "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
      }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled LinuxSubscriptionsDiscovery"

 },
        {
          "name": "Disabled",
          "value": "Disabled",
          "documentation": "Disabled LinuxSubscriptionsDiscovery"
        }
      ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
    "type": "structure",
    "members": {
      "SourceRegions": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
        "traits": {
          "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
          "smithy.api#required": {}
        }
      },
      "OrganizationIntegration": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
        "traits": {
          "smithy.api#documentation":
 "<p>Details if you have enabled resource discovery across your accounts in Organizations.</p>",
          "smithy.api#required": {}
```

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },

  {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest":
 {
        "type": "structure",
        "members": {
```

"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results by your specified criteria. \n \tFor example, you can specify <code>Region</code> in the <code>Name</code>, with the \n \t<code>contains</code> operator to list all subscriptions that match a partial string in the \n \t<code>Value</code>, such as <code>us-west</code>. \n For each filter, you can specify one of the following values for the <code>Name</code> key \n \tto streamline results: \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>DualSubscription</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n For each filter, you can use one of the following <code>Operator</code>
values to \n \t\tdefine the behavior of the filter: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to
start paginating. This \n\tis the nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {

"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},

"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",

"items": "Subscriptions"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The
valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis
the nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
                    "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                 "traits": {
                    "smithy.api#documentation": "<p>The next token used for paginated responses. When this \n\tfield
isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the
next request to retrieve \n\tadditional objects.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders": {
        "type": "operation",
        "input": {
            "target":
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest"
        },
        "output": {
            "target":
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"

            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>List Bring Your Own License (BYOL) subscription registration
resources for your account.</p>",
            "smithy.api#http": {
                "code": 200,
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"method": "POST",
"uri": "/subscription/ListRegisteredSubscriptionProviders"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "RegisteredSubscriptionProviders"
}
}

},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest": {
"type": "structure",
"members": {
"SubscriptionProviderSources": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList",
"traits": {
"smithy.api#documentation": " To filter your results, specify which subscription providers to return \n\t\t\tin the list. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. ",
"smithy.api#range": {
"min": 1,
"max": 100
}
}

},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis the nextToken from a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse": {
"type": "structure",

"members": {
"RegisteredSubscriptionProviders": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList",
"traits": {
"smithy.api#documentation": " The list of BYOL registration resources that fit the criteria \n\t\t\tyou specified in the request. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List the metadata tags that are assigned to the \n\t\t\tspecified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{resourceArn}"

```
            },
            "smithy.api#readonly": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "resourceArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                 "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource for which to
list metadata tags.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "tags": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The metadata tags for the requested resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
         }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
```

```
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled OrganizationIntegration"
                },
                {
                    "name": "Disabled",
                    "value": "Disabled",
                    "documentation": "Disabled OrganizationIntegration"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
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            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Register the supported third-party subscription provider for your Bring
Your Own License (BYOL) subscription.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/RegisterSubscriptionProvider"

            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
                "traits": {
                    "smithy.api#documentation": "<p>The supported Linux subscription provider to register.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecretArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the secret where you've
stored your subscription provider's access token. For \n\t\t\tRHEL subscriptions managed through the
 Red Hat Subscription Manager (RHSM), the secret contains \n\t\t\tyour Red Hat Offline token.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The metadata tags to assign to your registered Linux subscription
provider \n\t\t\tresource.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation":
" The Linux subscription provider that you registered. "
}
},
"SubscriptionProviderArn": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " Indicates the status of the registration action for the Linux subscription provider \n\t\t\tthat you requested. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider":
{
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
}
},
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " A supported third-party Linux subscription provider. License Manager currently supports \n\t\t\tRed Hat subscriptions. "

```
            }
        },
        "SecretArn": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Secrets Manager secret
that stores your registered Linux subscription provider \n\t\t\taccess token. For RHEL account subscriptions, this is
the offline token.</p>"
            }
        },
        "SubscriptionProviderStatus": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
            "traits": {
                "smithy.api#documentation": "<p>Indicates the status of your registered Linux subscription provider
access token \n\t\t\tfrom the last time License Manager retrieved subscription data. For RHEL account subscriptions,
\n\t\t\tthis is the status of the offline token.</p>"
            }
        },
        "SubscriptionProviderStatusMessage": {
            "target": "smithy.api#String",
            "traits":
 {
                "smithy.api#documentation": "<p>A detailed message that's associated with your BYOL subscription
\n\t\t\tprovider token status.</p>"
            }
        },
        "LastSuccessfulDataRetrievalTime": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The timestamp from the last time that License Manager accessed
third-party subscription data \n\t\t\tfor your account from your registered Linux subscription provider.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>A third-party provider for operating system (OS) platform software and
license \n\t\t\tsubscriptions, such as Red Hat. When you register a third-party Linux subscription \n\t\t\tprovider,
License Manager can get subscription data from the registered provider.</p>"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList":
 {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException": {
```

"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " Unable to find the requested Amazon Web Services resource. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name":
{
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "
}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " An object which details a discovered Linux subscription. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "RedHat",
"value": "RedHat",
"documentation": "RedHat subscription provider namespace"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

"name": "ACTIVE",
"value": "ACTIVE",
"documentation": "ACTIVE status"
},
{
"name": "INVALID",
"value": "INVALID",

"documentation": "INVALID status"
},
{
"name": "PENDING",
"value": "PENDING",
"documentation": "PENDING status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList": {
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Add metadata tags to the specified Amazon Web Services
resource.</p>",
            "smithy.api#http": {
                "method": "PUT",
                "uri": "/tags/{resourceArn}"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest": {
        "type": "structure",
        "members":
 {
            "resourceArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services
resource to which to add the specified \n\t\t\tmetadata tags.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            },
            "tags": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The metadata tags to assign to the Amazon Web Services resource.
Tags are \n\t\t\tformatted as key value pairs.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }

    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Tags": {
        "type": "map",
```

"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation":
" The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "DELETE",

```
            "uri": "/tags/{resourceArn}"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest": {
        "type": "structure",
        "members": {
          "resourceArn": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services
resource to remove the metadata tags from.</p>",
              "smithy.api#httpLabel": {},
              "smithy.api#required": {}
            }
          },
          "tagKeys": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList",
            "traits": {

          "smithy.api#documentation": "<p>A list of metadata tag keys to remove from the requested
\n\t\t\tresource.</p>",
              "smithy.api#httpQuery": "tagKeys",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
```

```
        },
          "errors": [
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
          ],
          "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
              "code": 200,
              "method": "POST",
              "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
          }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
          "type": "structure",
          "members": {
             "LinuxSubscriptionsDiscovery": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
              "traits": {
                "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                "smithy.api#required": {}
              }
            },
            "LinuxSubscriptionsDiscoverySettings": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
              "traits": {
                "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",
                "smithy.api#required": {}
              }
            },
            "AllowUpdate": {
              "target":
 "smithy.api#Boolean",
              "traits": {
                "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
```

```
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
        "type": "structure",
        "members": {
          "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
            "traits": {
              "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
            }
          },
          "LinuxSubscriptionsDiscoverySettings": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
             "traits": {
              "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>"
            }
          },
          "Status": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
            "traits": {
              "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
            }
          },
          "StatusMessage": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
            "traits": {
              "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
            }

       },
          "HomeRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
              "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
            }
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
```

```
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
 struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
```

```
 return err
}
if err = addTimeOffsetBuild(stack,
c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if err = addSpanInitializeEnd(stack); err != nil {
 return err
}
if err = addSpanBuildRequestStart(stack);
err != nil {
 return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
 return err
}
return nil
```

```
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
```

```
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string
```

```
// Amazon Resource Name (ARN) of the checkout license.
LicenseArn
*string

// License consumption token.
LicenseConsumptionToken *string

// Node ID.
NodeId *string

// Signed token.
SignedToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack,
 c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
```

```
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack);
 err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
CreateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
```

spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
GetLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID

ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Directory",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        },
        "ActiveDirectorySettings":
 {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings",
          "traits": {
            "smithy.api#documentation": "<p>The <code>ActiveDirectorySettings</code> resource contains
details about \n\t\t\tthe Active Directory, including network access details such as domain name and IP
\n\t\t\taddresses, and the credential provider for user administration.</p>"
          }
        },
        "ActiveDirectoryType": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType",
          "traits": {
            "smithy.api#documentation": "<p>The type of Active Directory  either a self-managed Active
Directory or an \n\t\t\tAmazon Web Services Managed Active Directory.</p>"
          }
        }
      },
```

"traits": {
"smithy.api#documentation": " Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings": {
"type": "structure",
"members": {
"DomainName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name for the Active Directory. "
}
},
"DomainIpv4List": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IpV4List",
"traits": {
"smithy.api#documentation": " A list of domain IPv4 addresses that are used for the Active Directory. ",
"smithy.api#length": {
"min": 1,
"max": 2
}
}
},
"DomainCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " Points to the <code>CredentialsProvider</code> resource that contains \n\t\t\tinformation about the credential provider for user administration. "
}
},
"DomainNetworkSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings",
"traits": {
"smithy.api#documentation": " The <code>DomainNetworkSettings</code> resource contains an array of \n\t\t\tsubnets that apply for the Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains network access and credential details that are needed for \n\t\t\tuser administration in the Active Directory. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType":

```
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "SELF_MANAGED",
                    "value": "SELF_MANAGED",
                    "documentation": "SELF_MANAGED type of Active Directory"
                },
                {
                    "name": "AWS_MANAGED",
                    "value": "AWS_MANAGED",
                    "documentation": "AWS_MANAGED type of Active Directory"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-
zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n\t\t\t\tmonthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http":
 {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance that provides the user-based
subscription.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the  Active Directory that contains
information for the user to associate.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The tags that apply for the user association.</p>"
                }
            }
        },
        "traits": {

    "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the associate user operation.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n\t\t\tresource.</p>",
```

"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/CreateLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest": {
"type": "structure",

"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details \n\t\t\tabout a registered identity provider. In the case of Active Directory, that can be \n\t\t\ta self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. ",
"smithy.api#required": {}
}
},
"LicenseServerSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings",
"traits": {
"smithy.api#documentation": " The <code>LicenseServerSettings</code> resource to create for the endpoint. The \n\t\t\tsettings include the type of license server and the Secrets Manager secret that \n\t\t\tenables administrators to add or remove users associated with the \n\t\t\tlicense server. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply for the license server endpoint. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider specified in the request. "
}
},
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The ARN of the <code>LicenseServerEndpoint</code> resource. "
}

```
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider": {
        "type": "union",
        "members": {
            "SecretsManagerCredentialsProvider":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider",
                "traits": {
                    "smithy.api#documentation": "<p>Identifies the Secrets Manager secret that contains credentials
needed for \n\t\t\tuser administration in the Active Directory.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Contains information about the credential provider for user
\n\t\t\tadministration.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Deletes a <code>LicenseServerEndpoint</code> resource. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/DeleteLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> \n\t\t\tresource to delete. ",
"smithy.api#required": {}
}
},
"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of License Server that the delete request refers to. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"LicenseServerEndpoint": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint",
"traits": {
"smithy.api#documentation": " Shows details from the <code>LicenseServerEndpoint</code>
resource that was deleted. "

```
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Deregisters the Active Directory identity provider from License
Manager user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/DeregisterIdentityProvider"
          },
          "smithy.api#idempotent": {}
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest":
 {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the Active Directory identity
provider.</p>"
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n        </p>"
                }
            },
            "IdentityProviderArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the identity
provider to deregister.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
```

```
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#Directory": {
    "type": "string",
    "traits": {
      "smithy.api#pattern": "^(d|sd)-[0-9a-f]{10}$"
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
      }
    ],
    "traits": {
      "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
      "smithy.api#http": {
        "code": 200,
        "method": "POST",
        "uri": "/user/DisassociateUser"
      },
      "smithy.api#idempotent": {}
```

```
    }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the Active Directory identity provider for the
user.</p>"
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance which provides user-based
subscriptions.</p>"
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the Active
 Directory identity provider.</p>"
                }
            },
            "InstanceUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the user to disassociate
from the EC2 instance.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the  Active Directory that contains
information for the user to disassociate.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
```

"members": {
"InstanceUserSummary":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " Contains a list of subnets that apply for the Active Directory domain. ",
"smithy.api#length": {
"min": 1
},

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Contains network settings for the Active Directory domain. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}

```
            },
            "Value": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>Value of the filter.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter name and value pair that is used to return more specific results
from a describe\n\t\t\tor list operation. You can use filters can be used to match a set of resources by specific
\n\t\t\tcriteria, such as tags, attributes, or IDs.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>The <code>ActiveDirectoryIdentityProvider</code> resource
contains settings \n\t\t\tand other details about a specific Active Directory identity provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Refers to an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>IdentityProvider</code> resource contains information
about \n\t\t\tan identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
```

"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The <code>Settings</code> resource contains details about the registered \n\t\t\tidentity providers product related configuration settings, such as the \n\t\t\tsubnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the identity provider. ",
"smithy.api#required": {}
}
},
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider. "
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},

"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance that provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },

    "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>IdentityProvider</code> resource specifies details
\n\t\t\tabout the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the instance
user.</p>"
                 }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
                }
            },
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"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user information for the product subscription. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanagerusersubscriptions#IpV4": {
"type": "string",
"traits": {
"smithy.api#pattern": "^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"

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    }
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"com.amazonaws.licensemanagerusersubscriptions#IpV4List": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IpV4"
    }
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"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
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            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
        },
```

```
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#TagResource"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UntagResource"
        },
        {

"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
        }
      ],
      "traits": {
        "aws.api#service": {
          "sdkId": "License Manager User Subscriptions",
          "arnNamespace": "license-manager-user-subscriptions",
          "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-user-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id",
            "content-length",

       "x-api-key",
            "authorization",
            "x-amz-date",
            "x-amz-security-token",
            "Access-Control-Allow-Headers",
            "Access-Control-Allow-Methods",
            "Access-Control-Allow-Origin"
          ],
          "additionalExposedHeaders": [
            "x-amzn-errortype",
            "x-amzn-requestid",
```

"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n\t\ta per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region":
{
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"

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                }
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseFIPS"
                        },
                        true
                    ]
                }
            ],
            "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [
                {

                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
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            "conditions": [],
            "endpoint": {
                "url": {
                    "ref": "Endpoint"
                },

"properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
```

```
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                "type": "tree"
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            {
                "conditions": [
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                        "fn": "isSet",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ]
                    }
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                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "aws.partition",

                            "argv": [
                                    {
                                        "ref": "Region"
                                    }
                                ],
                                "assign": "PartitionResult"
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                        "rules": [
                            {
                                "conditions": [
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                                        "fn": "booleanEquals",
                                        "argv": [
                                            {
                                                "ref": "UseFIPS"
                                            },

true
                                        ]
                                    },
                                    {
                                        "fn": "booleanEquals",
                                        "argv": [
                                            {
                                                "ref": "UseDualStack"
                                            },
                                            true
```

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                ]
            }
        ],
        "rules": [
            {
                "conditions": [
                    {

"fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            }
                        ]
                    },

                {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }

            ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
```

```
                    },
                    "type": "endpoint"
                }

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                "type": "tree"
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            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
                "type": "error"
            }
        ],
        "type": "tree"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [

  {
                    "ref": "UseFIPS"
                },
                true
            ]
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "fn": "getAttr",
                                "argv": [

    {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                            },
                            true
                        ]
                    }
```

```
                    ],
                    "rules": [
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                            "conditions": [],
                            "endpoint": {

        "url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ],
                    "type": "tree"
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled but this partition does not support FIPS",
                    "type": "error"

}
                ],
                "type": "tree"
            },
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "rules": [
                    {

    "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
]

}
]
}
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"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}

],
"type": "tree"
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
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"type": "tree"
},
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"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",

"properties": {},
"headers": {}
},
"type": "endpoint"
}
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"type": "tree"
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],
"type": "tree"

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            },
            {
              "conditions": [],
              "error": "Invalid Configuration: Missing Region",
              "type": "error"
            }
          ]
        },
        "smithy.rules#endpointTests": {
          "testCases": [
            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
              "expect":
{
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",

      "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
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"UseDualStack": true
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{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS":
true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {

"endpoint":
{
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,

"UseDualStack": false
}
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS
and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},

"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false

}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}

},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack
disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {

"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}

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            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
              "expect": {
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                  "url": "https://example.com"
                }
              },
              "params": {
                "UseFIPS": false,
                "UseDualStack":
false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration:
Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }
            }
          ],
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"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServer": {
"type": "structure",
"members": {
"ProvisioningStatus": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
"traits": {
"smithy.api#documentation": " The current state of the provisioning process for the RDS
\n\t\t\tlicense server. "
}
},
"HealthStatus": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus",
"traits": {
"smithy.api#documentation": " The health status of the RDS license server. "
}
},
"Ipv4Address": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A list of domain IPv4 addresses that are used for the RDS
\n\t\t\tlicense server. "
}
}
},
"traits": {
"smithy.api#documentation": " Information
about a Remote Desktop Services (RDS) license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider that's
associated with \n\t\t\tthe RDS license server endpoint. "
}
},
"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of license server. "

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            }
        },
        "ServerEndpoint": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint",

    "traits": {
                "smithy.api#documentation": "<p>The <code>ServerEndpoint</code> resource contains the network
\n\t\t\taddress of the RDS license server endpoint.</p>"
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The message associated with the provisioning status, if there is
one.</p>"
            }
        },
        "LicenseServerEndpointId": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId",
            "traits": {
                "smithy.api#documentation": "<p>The ID of the license server endpoint.</p>"
            }
        },
        "LicenseServerEndpointArn": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
            "traits":
 {
                "smithy.api#documentation": "<p>The ARN of the <code>ServerEndpoint</code> resource for the
RDS \n\t\t\tlicense server.</p>"
            }
        },
        "LicenseServerEndpointProvisioningStatus": {
            "target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
            "traits": {
                "smithy.api#documentation": "<p>The current state of the provisioning process for the RDS license
\n\t\t\tserver endpoint</p>"
            }
        },
        "LicenseServers": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList",
            "traits": {
                "smithy.api#documentation": "<p>An array of <code>LicenseServer</code> resources that represent
the \n\t\t\tlicense servers that are accessed through this endpoint.</p>"
            }
        },
```

"CreationTime": {
"target": "smithy.api#Timestamp",
"traits": {
"smithy.api#documentation": " The timestamp when License Manager created the license server endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains details about a network endpoint for a Remote Desktop Services (RDS) \n\t\t\tlicense server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId": {
"type": "string"
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "PROVISIONING",
"value": "PROVISIONING",
"documentation": ""
},
{
"name": "PROVISIONING_FAILED",
"value": "PROVISIONING_FAILED",
"documentation": ""
},
{
"name": "PROVISIONED",
"value": "PROVISIONED",
"documentation": ""
},
{
"name": "DELETING",
"value": "DELETING",
"documentation": ""
},
{

```
            "name": "DELETION_FAILED",
            "value": "DELETION_FAILED",
            "documentation": ""

        },
        {
            "name": "DELETED",
            "value": "DELETED",
            "documentation": ""
        }
    ]
  }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus": {
  "type": "string",
  "traits": {
    "smithy.api#enum": [
        {
            "name": "HEALTHY",
            "value": "HEALTHY",
            "documentation": ""
        },
        {
            "name": "UNHEALTHY",
            "value": "UNHEALTHY",
            "documentation": ""
        },
        {
            "name": "NOT_APPLICABLE",
            "value": "NOT_APPLICABLE",
            "documentation": ""
        }
    ]
  }
},
 "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServer"
  }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings": {
  "type": "structure",
  "members": {
    "ServerType": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
        "traits": {
            "smithy.api#documentation": "<p>The type of license server.</p>",
```

"smithy.api#required": {}
}
},
"ServerSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerSettings",
"traits": {
"smithy.api#documentation": " The <code>ServerSettings</code> resource contains the settings for
your \n\t\t\tserver. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The settings to configure your license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Active Directory identity providers for user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "IdentityProviderSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>You can use
 the following filters to streamline results:</p>\n        <ul>\n            <li>\n                <p>Product</p>\n            </li>\n
        <li>\n                <p>DirectoryId</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse": {
```

"type": "structure",
"members": {
"IdentityProviderSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",

"traits": {
"smithy.api#documentation": " An array of <code>IdentityProviderSummary</code> resources that contain \n\t\t\tdetails about the Active Directory identity providers that meet the request criteria. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members":
{
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single
request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n
\n \n Status \n \n
\n InstanceId \n \n "
}

```
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type": "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of <code>InstanceSummary</code> resources that
contain details \n\t\t\tabout the instances that provide user-based subscriptions and also meet the \n\t\t\trequest
criteria.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The next
 token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service
hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
```

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>List the Remote Desktop Services (RDS) License Server endpoints
</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/license-server/ListLicenseServerEndpoints"
            },

        "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "LicenseServerEndpoints"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>",
                    "smithy.api#range": {
                        "min": 1,
                        "max": 100
                    }
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                 "traits": {
                    "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n
<ul>\n            <li>\n              <p>IdentityProviderArn</p>\n            </li>\n        </ul>"
                }
            },
```

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse": {
"type": "structure",
"members": {
"LicenseServerEndpoints": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList",
"traits": {
"smithy.api#documentation": " An array of <code>LicenseServerEndpoint</code> resources that \n\t\t\tcontain detailed information about the RDS License Servers that meet \n\t\t\tthe request criteria. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the user-based subscription products available from an identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListProductSubscriptions"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest":
 {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n        </p>"
                }
            },
```

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n
\n \n Status \n \n \n Username \n \n \n Domain \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't

empty, \n\tthere are additional elements that the service
hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Returns the list of tags for the specified resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource whose tags
you want to retrieve. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

```
    }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse": {
    "type": "structure",
    "members": {
      "Tags": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
        "traits": {
          "smithy.api#documentation": "<p>The tags for the specified resource.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which
provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
```

"smithy.api#documentation": " You can use the following filters to streamline results: \n \n \n Status \n \n \n Username \n \n \n Domain \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {

"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {
"Username":
{
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The user name from the identity provider for this product user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for this user. ",
"smithy.api#required": {}
}
},
"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for this product user. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for this user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The domain name of the Active Directory that contains the user information for the product subscription. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " A summary of the user-based subscription products for a specific user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings": {
"type": "structure",
"members": {
"RdsSalCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " The <code>CredentialsProvider</code> resource contains a reference to \n\t\t\tthe credentials provider that's used for RDS license server user administration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Server settings that are specific to a Remote Desktop Services (RDS) license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"

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        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target":
 "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
          "IdentityProvider": {

     "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the identity provider to
register.</p>",
              "smithy.api#required": {}
            }
          },
          "Product": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n
Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits":
{
"smithy.api#documentation": " The registered identity providers product related configuration
\n\t\t\tsettings such as the subnets to provision VPC endpoints. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the identity provider's registration. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-

\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",

"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider": {
"type": "structure",
"members": {
"SecretId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the Secrets Manager secret that contains
credentials. ",
"smithy.api#length": {
"min": 1
}
}
}
},
"traits": {
"smithy.api#documentation": " Contains a credentials secret that's stored in Secrets Manager. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",
"traits": {
"smithy.api#length": {

"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint": {
"type": "structure",

"members": {
"Endpoint": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The network address of the endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " A network endpoint through which you can access one or more servers. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerSettings": {
"type": "union",
"members": {
"RdsSalSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings",
"traits": {
"smithy.api#documentation": " The <code>RdsSalSettings</code> resource contains settings to configure \n\t\t\ta specific Remote Desktop Services (RDS) license server. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains settings for a specific server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "RDS_SAL",
"value": "RDS_SAL",
"documentation": ""
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},

"traits": {
"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",

"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n\t\t\tsubnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n\t\t\tendpoints. The security group should permit inbound TCP port 1688 communication from resources\n\t\t\tin the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n\t\t\t\tmonthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}

}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",

"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user for whom to start the product \n\t\t\tsubscription. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the product subscription. "
}

}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"

    },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

    },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. "
}
},
"IdentityProvider": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. "
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n
Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n "
}
},
"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the product user. "

}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user
for whom to stop the product \n\t\t\tsubscription. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription
operation. ",

"smithy.api#required": {}
}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "^subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagKeyList": {
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {

"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse"

```
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation":
 "<p>Adds tags to a resource.</p>",
          "smithy.api#http": {
            "method": "PUT",
            "uri": "/tags/{ResourceArn}"
          },
          "smithy.api#idempotent": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest": {
        "type": "structure",
        "members": {
          "ResourceArn": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource that you want
to tag.</p>",
              "smithy.api#httpLabel": {},
              "smithy.api#required": {}
            }
          },
          "Tags": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
            "traits": {
              "smithy.api#documentation":
 "<p>The tags to apply to the specified resource.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse": {
```

"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#Tags": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException":
{
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the
request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

{

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Removes tags from a resource. ",
"smithy.api#http": {
"method": "DELETE",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource that you want to remove tags from. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

}
},
"TagKeys": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagKeyList",
"traits": {
"smithy.api#documentation": " The tag keys to remove from the resource. ",
"smithy.api#httpQuery": "tagKeys",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n\t\t\tprovider. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider"
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n "
}
},

"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider to update. "
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n\t\t\tupdate any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n\t\t\trequire connectivity to activation servers. ",

"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that
allows inbound TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n\t\t\tthe subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
ListReceivedLicenses
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput

ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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```
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if
 err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
```

```
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if
 err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
```

```
 return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
CheckoutLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
```

GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

1.4804 fluxcd-pkg-git 0.32.0

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1.4805 fluxcd-image-automation-controller-api 0.41.2

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1.4806 fluxcd-pkg-apis-meta 1.12.0

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1.4807 go-git-providers 0.23.0

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1.4808 fluxcd-pkg-envsubst 1.4.0

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1.4809 fluxcd-pkg-runtime 0.60.0

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1.4810 fluxcd-pkg-sourceignore 0.12.0

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1.4811 42wim-httpsig 1.2.2

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1.4812 fluxcd-pkg-kustomize 1.18.0

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1.4816 fluxcd-pkg-auth 0.17.0

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1.4817 fluxcd-pkg-oci 0.49.0

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1.4818 fluxcd-pkg-ssh 0.19.0

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1.4819 fluxcd-pkg-version 0.7.0

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1.4821 fluxcd-pkg-chartutil 1.3.0

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
```

```
 return swag.ConcatJSON(b1, b2), nil
}
```

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https://github.com/dradtke/gotk3

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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When contributing to this repository, please first discuss the change you wish
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Pull Request Process

1. Create an [issue](https://github.com/sigstore/rekor/issues)
  outlining the fix or feature.
2. Fork the rekor repository to your own github account and clone it locally.
3. Hack on your changes.
4. Update the README.md with details of changes to any interface, this includes new environment
  variables, exposed ports, useful file locations, CLI parameters and
  new or changed configuration values.
5. Correctly format your commit message see [Commit Messages](#Commit Message Guidelines)
  below.
6. Ensure that CI passes, if it fails, fix the failures.
7. Every pull request requires a review from the [core rekor
team](https://github.com/orgs/github.com/sigstore/teams/core-team)
  before merging.
8. If your pull request consists of more than one commit, please squash your
  commits as described in
 [Squash Commits](#Squash Commits)

Commit Message Guidelines

We follow the commit formatting recommendations found on [Chris Beams' How to Write a Git Commit Message article]((https://chris.beams.io/posts/git-commit/).

Well formed commit messages not only help reviewers understand the nature of
the Pull Request, but also assists the release process where commit messages
are used to generate release notes.

A good example of a commit message would be as follows:

```
Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72
characters or so. In some contexts, the first line is treated as the
subject of the commit and the rest of the text as the body. The
```

blank line separating the summary from the body is critical (unless
you omit the body entirely); various tools like `log`, `shortlog`
and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you
are making this
 change as opposed to how (the code explains that).
Are there side effects or other unintuitive consequences of this
change? Here's the place to explain them.

Further paragraphs come after blank lines.

- Bullet points are okay, too

- Typically a hyphen or asterisk is used for the bullet, preceded
  by a single space, with blank lines in between, but conventions
  vary here

If you use an issue tracker, put references to them at the bottom,
like this:

Resolves: #123
See also: #456, #789
```

Note the `Resolves #123` tag, this references the issue raised and allows us to
ensure issues are associated and closed when a pull request is merged.

Please refer to [the github help page on message types](https://help.github.com/articles/closing-issues-using-keywords/)
for a complete list of issue references.

## Squash Commits

Should your pull request consist of more than one commit (perhaps due to
a change being requested during the review cycle), please perform a git squash
once a reviewer
 has approved your pull request.

A squash can be performed as follows. Let's say you have the following commits:

```
initial commit
second commit
final commit
```

Run the command below with the number set to the total commits you wish to
squash (in our case 3 commits):
```

```
git rebase -i HEAD~3
```

You default text editor will then open up and you will see the following::

```
pick eb36612 initial commit
pick 9ac8968 second commit
pick a760569 final commit

# Rebase eb1429f..a760569 onto eb1429f (3 commands)
```

We want to rebase on top of our first commit, so we change the other two commits
to `squash`:

```
pick eb36612 initial commit
squash 9ac8968 second commit
squash a760569 final commit
```

After this, should you wish to update your commit message to better summarise
all of your pull request, run:

```
git commit --amend
```

You will then need to force push (assuming your initial commit(s) were posted
to github):

```
git push origin your-branch --force
```

Alternatively,
 a core member can squash your commits within Github.

DCO Signoff

Make sure to sign the [Developer Certificate of
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import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
```

```
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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Contributing

When contributing to this repository, please first discuss the change you wish
to make via an [issue](https://github.com/sigstore/rekor/issues).

Pull Request Process

1. Create an [issue](https://github.com/sigstore/rekor/issues)
  outlining the fix or feature.
2. Fork the rekor repository to your own github account and clone it locally.
3. Hack on your changes.
4. Update the README.md with details of changes to any interface, this includes new environment
  variables, exposed ports, useful file locations, CLI parameters and

new or changed configuration values.
5. Correctly format your commit message see [Commit Messages](#Commit Message Guidelines) below.
6. Ensure that CI passes, if it fails, fix the failures.
7. Every pull request requires a review from the [core rekor team](https://github.com/orgs/github.com/sigstore/teams/core-team) before merging.
8. If your pull request consists of more than one commit, please squash your commits as described in [Squash Commits](#Squash Commits)

Commit Message Guidelines

We follow the commit formatting recommendations found on [Chris Beams' How to Write a Git Commit Message article]((https://chris.beams.io/posts/git-commit/).

Well formed commit messages not only help reviewers understand the nature of the Pull Request, but also assists the release process where commit messages are used to generate release notes.

A good example of a commit message would be as follows:

```
Summarize changes in around 50 characters or less

More detailed explanatory text, if necessary. Wrap it to about 72
characters or so. In some contexts, the first line is treated as the
subject of the commit and the rest of the text as the body. The
blank line separating the summary from the body is critical (unless
you omit the body entirely); various tools like `log`, `shortlog`
and `rebase` can get confused if you run the two together.

Explain the problem that this commit is solving. Focus on why you
are making this
 change as opposed to how (the code explains that).
Are there side effects or other unintuitive consequences of this
change? Here's the place to explain them.

Further paragraphs come after blank lines.

- Bullet points are okay, too

- Typically a hyphen or asterisk is used for the bullet, preceded
  by a single space, with blank lines in between, but conventions
  vary here

If you use an issue tracker, put references to them at the bottom,
like this:
```

Resolves: #123
See also: #456, #789
```

Note the `Resolves #123` tag, this references the issue raised and allows us to
ensure issues are associated and closed when a pull request is merged.

Please refer to [the github help page on message types](https://help.github.com/articles/closing-issues-using-keywords/)
for a complete list of issue references.

## Squash Commits

Should your pull request consist of more than one commit (perhaps due to
a change being requested during the review cycle), please perform a git squash
once a reviewer
 has approved your pull request.

A squash can be performed as follows. Let's say you have the following commits:

```
initial commit
second commit
final commit
```

Run the command below with the number set to the total commits you wish to
squash (in our case 3 commits):

```
git rebase -i HEAD~3
```

You default text editor will then open up and you will see the following::

```
pick eb36612 initial commit
pick 9ac8968 second commit
pick a760569 final commit

# Rebase eb1429f..a760569 onto eb1429f (3 commands)
```

We want to rebase on top of our first commit, so we change the other two commits
to `squash`:

```
pick eb36612 initial commit
squash 9ac8968 second commit
squash a760569 final commit
```

After this, should you wish to update your commit message to better summarise
all of your pull request, run:
```

```
  git commit --amend
```

You will then need to force push (assuming your initial commit(s) were posted
to github):

```
  git push origin your-branch --force
```

Alternatively,
 a core member can squash your commits within Github.

DCO Signoff

Make sure to sign the [Developer Certificate of
Origin](https://git-scm.com/docs/git-commit#Documentation/git-commit.txt---signoff).

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src/options.c
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src/agent.c
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tests/client/torture_forward.c

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* DNS resolver (dirmngr/dns.c)

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1993 Christopher Seiwald seiwald@vix.com
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2010 Steve Bennett <steveb@workware.net.au>
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*

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#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
expression support

regexp/jimregexp.[ch]:

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Subsequently modified by:

1986 John Gilmore hoptoad!gnu
1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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regexp/utf8.[ch] (see regexp/LICENSE):

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1.4842 util-linux 2.39.3-9ubuntu6.3

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
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```
/*
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
```

```
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
uint32_t d_sbsize;        /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
```

```
  uint32_t p_size;        /* number of sectors in partition */
  uint32_t p_offset;       /* starting sector */
  uint32_t p_fsize;        /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;         /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
```

```
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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1.4843 util-linux 1:2.39.3-9ubuntu6.3

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```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

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```
/*
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* it what you wish.
*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif
```

```
#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
  * which occupy space at the end of each track and/or cylinder.
  */
 uint16_t d_sparespertrack; /* # of spare sectors per track */
 uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

 /*
  * Alternate cylinders include maintenance, replacement,
  * configuration description areas, etc.
  */
 uint32_t d_acylinders;  /* # of alt. cylinders per unit */

   /* hardware characteristics: */
 /*
  * d_interleave, d_trackskew and d_cylskew describe perturbations
```

```
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
uint32_t d_sbsize;        /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
 uint32_t p_size;        /* number of sectors in partition */
 uint32_t p_offset;       /* starting sector */
 uint32_t p_fsize;        /* filesystem basic fragment size */
 uint8_t  p_fstype; /* filesystem type, see below */
 uint8_t  p_frag;  /* filesystem fragments per block */
 uint16_t p_cpg;        /* filesystem cylinders per group */
} __attribute__((packed))
d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
```

```
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
```

```
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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*/
```

1.4844 libmount 2.39.3-9ubuntu6.3

1.4844.1 Available under license :

NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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```
/*
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* it what you wish.
*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
```

```
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
  * which occupy space at the end of each track and/or cylinder.
  */
 uint16_t d_sparespertrack; /* # of spare sectors per track */
 uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

 /*
  * Alternate cylinders include maintenance, replacement,
  * configuration description areas, etc.
  */
 uint32_t d_acylinders;  /* # of alt. cylinders per unit */

   /* hardware characteristics: */
 /*
  * d_interleave, d_trackskew and d_cylskew describe perturbations
  * in the media format used to compensate for a slow
 controller.
  * Interleave is physical sector interleave, set up by the formatter
  * or controller when formatting.  When interleaving is in use,
  * logically adjacent sectors are not physically contiguous,
  * but instead are separated by some number of sectors.
  * It is specified as the ratio of physical sectors traversed
  * per logical sector.  Thus an interleave of 1:1 implies contiguous
  * layout, while 2:1 implies that logical sector 0 is separated
```

```
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
uint32_t d_sbsize;        /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
 uint32_t p_size;        /* number of sectors in partition */
 uint32_t p_offset;       /* starting sector */
 uint32_t p_fsize;        /* filesystem basic fragment size */
 uint8_t  p_fstype; /* filesystem type, see below */
 uint8_t  p_frag;  /* filesystem fragments per block */
 uint16_t p_cpg;        /* filesystem cylinders per group */
} __attribute__((packed))
d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
```

```
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
```

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1.4845 fdisk 2.39.3-9ubuntu6.3

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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```

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```
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```

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/*
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
```

```
# of bytes per sector */
uint32_t d_nsectors;  /* # of data sectors per track */
uint32_t d_ntracks;  /* # of tracks per cylinder */
uint32_t d_ncylinders;  /* # of data cylinders per unit */
uint32_t d_secpercyl;  /* # of data sectors per cylinder */
uint32_t d_secperunit;  /* # of data sectors per unit */

/*
 * Spares (bad sector replacements) below
 * are not counted in d_nsectors or d_secpercyl.
 * Spare sectors are assumed to be physical sectors
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
```

```
 uint32_t d_drivedata[5];  /* drive-type specific information */
 uint32_t d_spare[5];  /* reserved for future use */
 uint32_t d_magic2;  /* the magic number (again) */
 uint16_t d_checksum;  /* xor of data incl. partitions */

   /* filesystem and partition information: */
 uint16_t d_npartitions;        /* number of partitions in following */
 uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
 uint32_t d_sbsize;        /* max size of fs superblock, bytes */

 struct bsd_partition  {  /* the partition table */
  uint32_t p_size;        /* number of sectors in partition */
  uint32_t p_offset;       /* starting sector */
  uint32_t p_fsize;        /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;        /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
```

```
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

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1.4846 libssh 0.10.6-2ubuntu0.1

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```
/*
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
```

```
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
  * which occupy space at the end of each track and/or cylinder.
  */
 uint16_t d_sparespertrack; /* # of spare sectors per track */
 uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

 /*
  * Alternate cylinders include maintenance, replacement,
  * configuration description areas, etc.
  */
 uint32_t d_acylinders;  /* # of alt. cylinders per unit */

   /* hardware characteristics: */
 /*
  * d_interleave, d_trackskew and d_cylskew describe perturbations
  * in the media format used to compensate for a slow
 controller.
  * Interleave is physical sector interleave, set up by the formatter
  * or controller when formatting.  When interleaving is in use,
  * logically adjacent sectors are not physically contiguous,
  * but instead are separated by some number of sectors.
  * It is specified as the ratio of physical sectors traversed
  * per logical sector.  Thus an interleave of 1:1 implies contiguous
  * layout, while 2:1 implies that logical sector 0 is separated
```

```
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
uint32_t d_sbsize;        /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
 uint32_t p_size;        /* number of sectors in partition */
 uint32_t p_offset;       /* starting sector */
 uint32_t p_fsize;        /* filesystem basic fragment size */
 uint8_t  p_fstype; /* filesystem type, see below */
 uint8_t  p_frag;  /* filesystem fragments per block */
 uint16_t p_cpg;        /* filesystem cylinders per group */
} __attribute__((packed))
d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
```

```
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
```

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```

Also add information on how to contact you by electronic and paper mail.

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

```
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  This program comes with ABSOLUTELY
 NO WARRANTY; for details type `show w'.
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  under certain conditions; type `show c' for details.
```

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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to use the modified definitions.)

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rather than copying library functions into the executable, and (2)
will operate
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```
/*
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*/
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /*
 # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /* # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
```

```
uint32_t d_secperunit;  /* # of data sectors per unit */

/*
 * Spares (bad sector replacements) below
 * are not counted in d_nsectors or d_secpercyl.
 * Spare sectors are assumed to be physical sectors
 * which occupy space at the end of each track and/or cylinder.
 */
uint16_t d_sparespertrack; /* # of spare sectors per track */
uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

/*
 * Alternate cylinders include maintenance, replacement,
 * configuration description areas, etc.
 */
uint32_t d_acylinders;  /* # of alt. cylinders per unit */

  /* hardware characteristics: */
/*
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow
controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /*
track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /* drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */
```

```
  /* filesystem and partition information: */
 uint16_t d_npartitions;        /* number of partitions in following */
 uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
 uint32_t d_sbsize;        /* max size of fs superblock, bytes */

 struct bsd_partition  {  /* the partition table */
  uint32_t p_size;        /* number of sectors in partition */
  uint32_t p_offset;       /* starting sector */
  uint32_t p_fsize;        /* filesystem basic fragment size */
  uint8_t  p_fstype; /* filesystem type, see below */
  uint8_t  p_frag;  /* filesystem fragments per block */
  uint16_t p_cpg;        /* filesystem cylinders per group */
 } __attribute__((packed))
 d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values: */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7
   3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
```

```
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /*
 removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1993 Christopher Seiwald seiwald@vix.com
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2010 Steve Bennett <steveb@workware.net.au>
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1.4856 ipmiutil 1.8.18-11ubuntu2.2

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1.4857 golang 1.24.5

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package copyright

import (

```
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
```

```
  t.Error(err)
  return nil
 }
 b := buf[:n]
 if bytes.Contains(b, copyright) {
  return nil
 }
 for _, ok := range permitted {
  if bytes.HasPrefix(b, ok) {
   return nil
  }
 }
 t.Errorf("%s: missing copyright notice", path)
 return nil
})
}
```

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1.4858 stdlib go1.24.5

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
```

```
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
```

})
}
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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 //
 10.5: License Comment
 // Cardinality: optional, one
```

LicenseComment string `json:"comment,omitempty"`
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
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 LicenseComment string `json:"comment,omitempty"`
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 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
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 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

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 LicenseName string `json:"name,omitempty"`

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 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
 optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.

* 'Local' prefix added to all structs.

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}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.4871 go-etcd-io-bbolt 1.4.2

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1.4872 klauspost-compress v1.16.7

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procfs provides functions to retrieve system, kernel and process
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.4878 python-certifi 2025.07.14

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.4879 kubernetes/cli-runtime 0.33.2

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1.4880 kubernetes-cliruntime v0.33.2

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```
 library `Frob' (a library for tweaking knobs) written by James Random Hacker.

 <signature of Ty Coon>, 1 April 1990
 Ty Coon, President of Vice

That's all there is to it!
/*  Extract the last component (base name) of a file name.

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   along with this program.  If not, see <https://www.gnu.org/licenses/>.  */

#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
```

```
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:
          FILENAME
      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
```

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* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionContext.java
* /servlet-api-2-5-sources-8-jar/javax/servlet/UnavailableException.java
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*
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* /servlet-api-2-5-sources-8-jar/javax/servlet/SingleThreadModel.java
* /servlet-api-2-5-sources-8-jar/javax/servlet/ServletInputStream.java
* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpUtils.java
* /servlet-api-2-5-sources-8-jar/javax/servlet/http/HttpSessionEvent.java
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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
```

```
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//             on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//             is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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type OtherLicense struct {
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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`
```

// 6.5:
License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
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 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
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 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
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 LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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link a ``work that uses the Library'' with the Library to produce a
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@enumerate a
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Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

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@end enumerate

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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies the
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Public License instead of this License. But first, please read
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/* Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
```

```
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
```

==========

Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
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==========

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Constant-time SSSE3 AES core implementation.
version 0.1
##
By Mike Hamburg (Stanford University), 2009
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1.4891 libcbin 2.39-0ubuntu8.5

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cause the whole of the work to be licensed at no
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the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

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2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the

library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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directing the user to the copy of
this License. Also, you must do one
of these things:

@enumerate a
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the

user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
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 and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

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@subheading END OF TERMS AND CONDITIONS

@page
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the work with the complete corresponding
machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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properly with a modified version of the library, if
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#ifndef _BASENAME_LGPL_H

```
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
```

```
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
```

==========

Written by Andy Polyakov <appro@fy.chalmers.se> for the OpenSSL
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==========

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1.4896 x-crypto 0.40.0

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OpenSSL Notes

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1.4901 libsystemd 255.4-1ubuntu8.10

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public
License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster

development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library".
The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Otherwise, if the work
is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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  - hwdb.d/parse_hwdb.py

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- tools/catalog-report.py

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  - src/basic/siphash24.h
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OpenSSL Notes

Note that building the systemd project with OpenSSL does not affect the libsystemd.so
shared library, which is not linked with the OpenSSL library.

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1.4907 x-net 0.42.0

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Support for streaming Protocol Buffer messages for the Go language (golang).
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1.4909 godo 1.152.0

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1.4910 ionos-cloud-sdk-go 6.3.4

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* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/View.cpp
* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/magic.c
* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/Bucket.hpp
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* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/MerkleNode.hpp
* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/tests/test_merkle.cpp
* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/SwimClient.cpp
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 /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/View.hpp
* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/tests/test_bucket.cpp
* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/src/network.h
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* /massenz-distlib-0-4-0-0-gc9d3d4a-tar-gz/massenz-distlib-568a46f/CMakeLists.txt
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1.4919 libsoup 3.4.4-5ubuntu0.5

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1.4921 picomatch 4.0.3

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1.4923 validate-npm-package-name 6.0.2

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1.4924 spf13-pflag 1.0.7

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1.4927 zlib1g 1:1.2.11.dfsg-2ubuntu9.2

1.4927.1 Available under license :

No license file was found, but licenses were detected in source scan.

/* gun.c -- simple gunzip to give an example of the use of inflateBack()

* Copyright (C) 2003, 2005, 2008, 2010, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.7 12 August 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gun.c
No license file was found, but licenses were detected in source scan.

/* gzwrite.c -- zlib functions for writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c
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/* inffast.h -- header to use inffast.c
* Copyright (C) 1995-2003, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

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/* unzip.c -- IO for uncompress .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64
Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

Decryption code comes from crypt.c by Info-ZIP but has been greatly reduced in terms of compatibility with older software. The following is from the original crypt.c.
Code woven in by Terry Thorsen 1/2003.

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See the accompanying
file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
If, for some reason, all these files are missing, the Info-ZIP license
also may be found at: ftp://ftp.info-zip.org/pub/infozip/license.html

crypt.c (full version) by Info-ZIP. Last revised: [see crypt.h]

The encryption/decryption parts of this source code (as opposed to the non-echoing password parts) were originally written in Europe. The whole source package can be freely distributed, including from the USA. (Prior to January 2000, re-export from the US was a violation of US law.)

This encryption code is a direct transcription of the algorithm from Roger Schlafly, described by Phil Katz in the file appnote.txt. This file (appnote.txt) is distributed with the PKZIP program (even in the version without encryption capabilities).

Changes in unzip.c

2007-2008 - Even Rouault - Addition of cpl_unzGetCurrentFileZStreamPos
2007-2008 - Even Rouault - Decoration of symbol names unz* -> cpl_unz*
2007-2008 - Even Rouault - Remove old C style function prototypes
2007-2008 - Even Rouault - Add unzip support for ZIP64

Copyright (C) 2007-2008 Even Rouault

Oct-2009 - Mathias Svensson - Removed cpl_* from symbol names (Even Rouault added them but since this is now moved to a new project (minizip64) I renamed them again).
Oct-2009 - Mathias Svensson - Fixed problem if uncompressed size was > 4G and compressed size was <4G
should only read the compressed/uncompressed size from the Zip64 format if
the size from normal header was 0xFFFFFFFF
Oct-2009 - Mathias Svensson - Applied some bug fixes from paches recived from Gilles Vollant
Oct-2009 - Mathias Svensson - Applied support to unzip files with compression mathod BZIP2 (bzip2 lib is required)
Patch created by Daniel Borca

Jan-2010 - back to unzip and minizip 1.0 name scheme, with compatibility layer

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*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c
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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/Makefile.emx
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.dj2
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/msdos/Makefile.emx
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/* inflate.c -- zlib decompression
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c
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/* infback.c -- inflate using a call-back interface
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c
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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein
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```
/* gzlog.h
 Copyright (C) 2004, 2008, 2012 Mark Adler, all rights reserved
 version 2.2, 14 Aug 2012

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 Mark Adler    madler@alumni.caltech.edu
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.h
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```
/* uncompr.c -- decompress a memory buffer
* Copyright (C) 1995-2003, 2010, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c
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```
/* inflate.h -- internal inflate state definition
* Copyright (C) 1995-2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h

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/* zconf.h -- configuration of the zlib compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h
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/* zip.h -- IO on .zip files using zlib
  Version 1.1, February 14h, 2010
  part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

  Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

  Modifications for Zip64 support
  Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

  For more info read MiniZip_info.txt

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  Changes

  See header of zip.h

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h
No license file was found, but licenses were detected in source scan.

/*
* gzlog.c
* Copyright (C) 2004, 2008, 2012, 2016 Mark Adler, all rights reserved
* For conditions of distribution and use, see copyright notice in gzlog.h
* version 2.2, 14 Aug 2012
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzlog.c
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/* gzjoin -- command to join gzip files into one gzip file

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version 1.2, 14 Aug 2012

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*/

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* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzjoin.c
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ZLIB DATA COMPRESSION LIBRARY

zlib 1.2.11 is a general purpose data compression library. All the code is thread safe. The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950 (zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).

All functions of the compression library are documented in the file zlib.h (volunteer to write man pages welcome, contact zlib@gzip.org). A usage example of the library is given in the file test/example.c which also tests that the library is working correctly. Another example is given in the file test/minigzip.c. The compression library itself is composed of all source files in the root directory.

To compile all files and run the test program, follow the instructions given at the top of Makefile.in. In short "./configure; make test", and if that goes well, "make install" should work
for most flavors of Unix. For Windows, use
one of the special makefiles in win32/ or contrib/vstudio/ . For VMS, use make_vms.com.

Questions about zlib should be sent to <zlib@gzip.org>, or to Gilles Vollant <info@winimage.com> for the Windows DLL version. The zlib home page is http://zlib.net/ . Before reporting a problem, please check this site to verify that you have the latest version of zlib; otherwise get the latest version and check whether the problem still exists or not.

PLEASE read the zlib FAQ http://zlib.net/zlib_faq.html before asking for help.

Mark Nelson <markn@ieee.org> wrote an article about zlib for the Jan. 1997 issue of Dr. Dobb's Journal; a copy of the article is available at http://marknelson.us/1997/01/01/zlib-engine/ .

The changes made in version 1.2.11 are documented in the file ChangeLog.

Unsupported third party contributions are provided in directory contrib/ .

zlib is available in Java using the java.util.zip package, documented at http://java.sun.com/developer/technicalArticles/Programming/compression/
.

A Perl interface to zlib written by Paul Marquess <pmqs@cpan.org> is available at CPAN (Comprehensive Perl Archive Network) sites, including http://search.cpan.org/~pmqs/IO-Compress-Zlib/ .

A Python interface to zlib written by A.M. Kuchling <amk@amk.ca> is available in Python 1.5 and later versions, see http://docs.python.org/library/zlib.html .

zlib is built into tcl: http://wiki.tcl.tk/4610 .

An experimental package to read and write files in .zip format, written on top of zlib by Gilles Vollant <info@winimage.com>, is available in the contrib/minizip directory of zlib.

Notes for some targets:

- For Windows DLL versions, please see win32/DLL_FAQ.txt

- For 64-bit Irix, deflate.c must be compiled without any optimization. With -O, one libpng test fails. The test works in 32 bit mode (with the -n32 compiler flag). The compiler bug has been reported to SGI.

- zlib doesn't work with gcc 2.6.3 on a DEC 3000/300LX under OSF/1 2.1 it works when compiled with cc.

- On Digital Unix 4.0D (formely OSF/1) on AlphaServer, the cc option -std1 is necessary to get gzprintf working correctly. This is done by configure.

- zlib doesn't work on HP-UX 9.05 with some versions of /bin/cc. It works with other compilers. Use "make test" to check your compiler.

- gzdopen is not supported on RISCOS or BEOS.

- For PalmOs, see http://palmzlib.sourceforge.net/

Acknowledgments:

The deflate format used by zlib was defined by Phil Katz. The deflate and zlib specifications were written by L. Peter Deutsch. Thanks to all the people who reported problems and suggested various improvements in zlib; they are too numerous to cite here.

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

If you use the zlib library in a product, we would appreciate *not* receiving
lengthy legal documents to sign. The sources are provided for free but without
warranty of any kind. The library has been entirely written by Jean-loup
Gailly and Mark Adler; it does not include
third-party code.

If you redistribute modified sources, we would appreciate that you include in
the file ChangeLog history information documenting your changes. Please read
the FAQ for more information on the distribution of modified source versions.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
No license file was found, but licenses were detected in source scan.

/* fitblk.c: example of fitting compressed output to a specified size
  Not copyrighted -- provided to the public domain
  Version 1.1 25 November 2004 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/fitblk.c
No license file was found, but licenses were detected in source scan.

/* gzread.c -- zlib functions for reading gzip files
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c
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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://tools.ietf.org/html/rfc1950
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h
No license file was found, but licenses were detected in source scan.

/* inftrees.h -- header to use inftrees.c
* Copyright (C) 1995-2005, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h
No license file was found, but licenses were detected in source scan.

/* deflate.c -- compress data using the deflation algorithm
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* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c

No license file was found, but licenses were detected in source scan.

/* deflate.h -- internal compression state
* Copyright (C) 1995-2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h
No license file was found, but licenses were detected in source scan.

/* minigzip.c -- simulate gzip using the zlib compression library
* Copyright (C) 1995-2006, 2010, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c
No license file was found, but licenses were detected in source scan.

/* gzlib.c -- zlib functions common to reading and writing gzip files
* Copyright (C) 2004-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c
No license file was found, but licenses were detected in source scan.

/* inftrees.c -- generate Huffman trees for efficient decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c
No license file was found, but licenses were detected in source scan.

/* infcover.c -- test zlib's inflate routines with full code coverage
* Copyright (C) 2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c
No license file was found, but licenses were detected in source scan.

/* zutil.c -- target dependent utility functions for the compression library

* Copyright (C) 1995-2017 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c
No license file was found, but licenses were detected in source scan.

/* example.c -- usage example of the zlib compression library
* Copyright (C) 1995-2006, 2011, 2016 Jean-loup Gailly
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c
No license file was found, but licenses were detected in source scan.

/* trees.c -- output deflated data using Huffman coding
* Copyright (C) 1995-2017 Jean-loup Gailly
* detect_data_type() function provided freely by Cosmin Truta, 2006
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c
No license file was found, but licenses were detected in source scan.

MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson

Introduction

MiniZip 1.1 is built from MiniZip 1.0 by Gilles Vollant (http://www.winimage.com/zLibDll/minizip.html)

When adding ZIP64 support into minizip it would result into risk of breaking compatibility with minizip 1.0.
All possible work was done for compatibility.

Background

When adding ZIP64 support Mathias Svensson found that Even Rouault have added ZIP64
support for unzip.c into minizip for a open source project called gdal (http://www.gdal.org/)

That was used as a starting point. And after that ZIP64 support was added to zip.c
some refactoring and code cleanup was also done.

Changed from MiniZip 1.0 to MiniZip 1.1
---

* Added ZIP64 support for unzip (by Even Rouault)
* Added ZIP64 support for zip (by Mathias Svensson
)
* Reverted some changed that Even Rouault did.
* Bunch of patches received from Gulles Vollant that he received for MiniZip from various users.
* Added unzip patch for BZIP Compression method (patch create by Daniel Borca)
* Added BZIP Compress method for zip
* Did some refactoring and code cleanup

Credits

Gilles Vollant - Original MiniZip author
Even Rouault - ZIP64 unzip Support
Daniel Borca - BZip Compression method support in unzip
Mathias Svensson - ZIP64 zip support
Mathias Svensson - BZip Compression method support in zip

Resources

ZipLayout http://result42.com/projects/ZipFileLayout
Command line tool for Windows that shows the layout and information of the headers in a zip archive.
Used when debugging and validating the creation of zip files using MiniZip64

ZIP App Note http://www.pkware.com/documents/casestudies/APPNOTE.TXT
Zip File specification

Notes.
* To be able to use BZip compression method in
 zip64.c or unzip64.c the BZIP2 lib is needed and HAVE_BZIP2 need to be defined.

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2. Altered source versions must be plainly marked as such, and must not be
misrepresented as being the original software.
3. This notice may
not be removed or altered from any source distribution.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
No license file was found, but licenses were detected in source scan.

/*
Additional tools for Minizip
Code: Xavier Roche '2004
License: Same as ZLIB (www.gzip.org)
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h
No license file was found, but licenses were detected in source scan.

/* compress.c -- compress a memory buffer
* Copyright (C) 1995-2005, 2014, 2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c
No license file was found, but licenses were detected in source scan.

/* gzclose.c -- zlib gzclose() function
* Copyright (C) 2004, 2010 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c
No license file was found, but licenses were detected in source scan.

/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
part of the MiniZip project - (http://www.winimage.com/zLibDll/minizip.html)

Copyright (C) 1998-2010 Gilles Vollant (minizip) (http://www.winimage.com/zLibDll/minizip.html)

Modifications of Unzip for Zip64

Copyright (C) 2007-2008 Even Rouault

Modifications for Zip64 support on both zip and unzip
Copyright (C) 2009-2010 Mathias Svensson (http://result42.com)

For more info read MiniZip_info.txt

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   appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be
   misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Changes

See header of unzip64.c

*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h
No license file was found, but licenses were detected in source scan.

/* zran.c -- example of zlib/gzip stream indexing and random access
* Copyright (C) 2005, 2012 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
  Version 1.1 29 Sep 2012 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zran.c

No license file was found, but licenses were detected in source scan.

```
/* inffast.c -- fast decoding
* Copyright (C) 1995-2017 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c
No license file was found, but licenses were detected in source scan.

```
const char *lastslash = 0;
lastslash = tmpptr;
if( lastslash != NULL )
savefilenameinzip = lastslash+1; // base filename follows last slash.
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/minizip.c
No license file was found, but licenses were detected in source scan.

```
/* crc32.c -- compute the CRC-32 of a data stream
* Copyright (C) 1995-2006, 2010, 2011, 2012, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*
* Thanks to Rodney Brown <rbrown64@csc.com.au> for his contribution of faster
* CRC methods: exclusive-oring 32 bits of data at a time, and pre-computing
* tables for updating the shift register in one step with three exclusive-ors
* instead of four steps with four exclusive-ors.  This results in about a
* factor of two increase in speed on a Power PC G4 (PPC7455) using gcc -O3.
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c
No license file was found, but licenses were detected in source scan.

```
/* adler32.c -- compute the Adler-32 checksum of a data stream
* Copyright (C) 1995-2011, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c
No license file was found, but licenses were detected in source scan.

```
/* zutil.h -- internal interface and configuration of the compression library
* Copyright (C) 1995-2016 Jean-loup Gailly, Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/
```

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h
No license file was found, but licenses were detected in source scan.

/* gzguts.h -- zlib internal header definitions for gz* operations
* Copyright (C) 2004, 2005, 2010, 2011, 2012, 2013, 2016 Mark Adler
* For conditions of distribution and use, see copyright notice in zlib.h
*/

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h
No license file was found, but licenses were detected in source scan.

/* zpipe.c: example of proper use of zlib's inflate() and deflate()
  Not copyrighted -- provided to the public domain
  Version 1.4 11 December 2005 Mark Adler */

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/zpipe.c
No license file was found, but licenses were detected in source scan.

/* gzappend -- command to append to a gzip file

 Copyright (C) 2003, 2012 Mark Adler, all rights reserved
 version 1.2, 11 Oct 2012

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    misrepresented as being the original software.
 3. This notice may not be
 removed or altered from any source distribution.

 Mark Adler   madler@alumni.caltech.edu
*/

Found in path(s):

* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/examples/gzappend.c
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c
and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package.
zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib.
Please try to reproduce the problem with a small program and send the
corresponding source to us at zlib@gzip.org . Do not send multi-megabyte
data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or
/usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib
distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt
the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

make install

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines that zlib uses and any application-provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along

with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25. Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work
with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General
Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

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44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

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Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.4928 sysvinit-utils 3.01-1ubuntu1

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1.4929 util-deprecate 1.0.2

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1.4930 string_decoder 1.1.1

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1.4931 validate-npm-package-license 3.0.4

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
  validForOldPackages: false,
  validForNewPackages: false,
```

```
  warnings: [
    'license should be ' +
    'a valid SPDX license expression (without "LicenseRef"), ' +
    '"UNLICENSED", or ' +
     '"SEE LICENSE IN <filename>"',
    'license is similar to the valid expression "Apache-2.0"'
  ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>"',
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);

assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package

and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

1.4932 wrappy 1.0.2

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1.4936 require-directory 2.1.1

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1.4937 process-nextick-args 2.0.1

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1.4938 path-is-absolute 1.0.1

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1.4939 stack-trace 0.0.10

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1.4940 spdx-correct 3.2.0

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1.4941 spdx-expression-parse 3.0.1

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1.4942 utils-merge 1.0.1

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1.4943 unpipe 1.0.0

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1.4952 proxy-addr 2.0.7

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1.4953 to-regex-range 5.0.1

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1.4956 type-is 1.6.18

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1.4958 sprintf-js 1.0.3

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1.4959 qrcode-terminal 0.12.0

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands

as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.4985 tiny-relative-date 1.3.0

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1.4986 util-linux 2.37.2-4ubuntu3.4

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```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

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machine-readable source code, which
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```
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif
```

```
#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */

struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /* # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /*
 # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
  * which occupy space at the end of each track and/or cylinder.
  */
 uint16_t d_sparespertrack; /* # of spare sectors per track */
 uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

 /*
  * Alternate cylinders include maintenance, replacement,
  * configuration description areas, etc.
  */
 uint32_t d_acylinders;  /* # of alt. cylinders per unit */

   /* hardware characteristics: */
 /*
```

```
 * d_interleave, d_trackskew and d_cylskew describe perturbations
 * in the media format used to compensate for a slow controller.
 * Interleave is physical sector interleave, set up by the formatter
 * or controller
when formatting.  When interleaving is in use,
 * logically adjacent sectors are not physically contiguous,
 * but instead are separated by some number of sectors.
 * It is specified as the ratio of physical sectors traversed
 * per logical sector.  Thus an interleave of 1:1 implies contiguous
 * layout, while 2:1 implies that logical sector 0 is separated
 * by one sector from logical sector 1.
 * d_trackskew is the offset of sector 0 on track N
 * relative to sector 0 on track N-1 on the same cylinder.
 * Finally, d_cylskew is the offset of sector 0 on cylinder N
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /* track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /*
drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
uint32_t d_sbsize;        /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
 uint32_t p_size;        /* number of sectors in partition */
 uint32_t p_offset;       /* starting sector */
 uint32_t p_fsize;        /* filesystem basic fragment size */
 uint8_t  p_fstype; /* filesystem type, see below */
 uint8_t  p_frag;  /* filesystem fragments per block */
 uint16_t p_cpg;        /* filesystem cylinders per group */
} __attribute__((packed)) d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values:
 */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
```

```
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */

/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7       3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7
 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
```

```
#define BSD_D_REMOVABLE 0x01  /* removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports
 bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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*/
```

1.4987 simple-swizzle 0.2.2

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1.4988 text-hex 1.0.0

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1.4990 wget 1.21.2-2ubuntu1.1

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/* Extract the last component (base name) of a file name.

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif


/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
```

```
   * The 'basename' command eliminates trailing slashes and for a root
     produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
```

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Version 3, 29 June 2007

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
uganda.txt For Vim version 8.2. Last change: 2020 Jan 08

VIM REFERENCE MANUAL by Bram Moolenaar

uganda *Uganda* *copying* *copyright* *license*
SUMMARY
iccf *ICCF*
Vim is Charityware. You can use and copy it as much as you like, but you are encouraged to make a donation for needy children in Uganda. Please see |kcc| below or visit the ICCF web site, available at these URLs:

http://iccf-holland.org/
http://www.vim.org/iccf/
http://www.iccf.nl/

You can also sponsor the development of Vim. Vim sponsors can vote for features. See |sponsor|. The money goes to Uganda anyway.

The Open Publication License applies to the Vim documentation, see |manual-copyright|.

=== begin of license ===

VIM LICENSE

I) There are no restrictions on distributing unmodified copies of Vim except
that they must include this license text. You can also distribute
unmodified parts of Vim, likewise unrestricted except that they must
include this license text. You
are also allowed to include executables
that you made from the unmodified Vim sources, plus your own usage
examples and Vim scripts.

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conditions are met:
1) This license text must be included unmodified.
2) The modified Vim must be distributed in one of the following five ways:
a) If you make changes to Vim yourself, you must clearly describe in

the distribution how to contact you. When the maintainer asks you
(in any way) for a copy of the modified Vim you distributed, you
must make your changes, including source code, available to the
maintainer without fee. The maintainer reserves the right to
include your changes in the official version of Vim. What the
maintainer will do with your changes and under what license they
will be distributed is negotiable. If there has been no negotiation

then this license, or a later version, also applies to your changes.
The current maintainer is Bram Moolenaar <Bram@vim.org>. If this
changes it will be announced in appropriate places (most likely
vim.sf.net, www.vim.org and/or comp.editors). When it is completely
impossible to contact the maintainer, the obligation to send him
your changes ceases. Once the maintainer has confirmed that he has
received your changes they will not have to be sent again.
b) If you have received a modified Vim that was distributed as
mentioned under a) you are allowed to further distribute it
unmodified, as mentioned at I). If you make additional changes the
text under a) applies to those changes.
c) Provide all the changes, including source code, with every copy of
the modified Vim you distribute. This may be done in the form of a
context diff. You can choose what license to use for new code you
add. The changes and their license must not restrict
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making their own changes to the official version of Vim.
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permits the Vim maintainer to include the changes in the official
version of Vim without fee or restriction.
- You keep the changes for at least three years after last
distributing the corresponding modified Vim. When the maintainer
or someone who you distributed the modified Vim to asks you (in
any way) for the changes within this period, you must make them
available to him.
- You clearly describe in the distribution how to contact you. This
contact information must remain valid for at least three years
after last distributing the corresponding
modified Vim, or as long
as possible.
e) When the GNU General Public License (GPL) applies to the changes,
you can distribute the modified Vim under the GNU GPL version 2 or
any later version.
3) A message must be added, at least in the output of the ":version"
command and in the intro screen, such that the user of the modified Vim
is able to see that it was modified. When distributing as mentioned

under 2)e) adding the message is only required for as far as this does
not conflict with the license used for the changes.

4) The contact information as required under 2)a) and 2)d) must not be
removed or changed, except that the person himself can make
corrections.

III) If you distribute a modified version of Vim, you are encouraged to use
the Vim license for your changes and make them available to the
maintainer, including the source code. The preferred way to do this is
by e-mail or by uploading
the files to a server and e-mailing the URL.
If the number of changes is small (e.g., a modified Makefile) e-mailing a
context diff will do. The e-mail address to be used is
<maintainer@vim.org>

IV) It is not allowed to remove this license from the distribution of the Vim
sources, parts of it or from a modified version. You may use this
license for previous Vim releases instead of the license that they came
with, at your option.

=== end of license ===

Note:

- If you are happy with Vim, please express that by reading the rest of this
file and consider helping needy children in Uganda.

- If you want to support further Vim development consider becoming a
|sponsor|. The money goes to Uganda anyway.

- According to Richard Stallman the Vim license is GNU GPL compatible.
A few minor changes have been made since he checked it, but that should not
make a difference.

- If you link Vim with a library that goes under the GNU GPL, this limits
further
distribution to the GNU GPL. Also when you didn't actually change
anything in Vim.

- Once a change is included that goes under the GNU GPL, this forces all
further changes to also be made under the GNU GPL or a compatible license.

- If you distribute a modified version of Vim, you can include your name and
contact information with the "--with-modified-by" configure argument or the
MODIFIED_BY define.

==========
Kibaale Children's Centre *kcc* *Kibaale* *charity*

Kibaale Children's Centre (KCC) is located in Kibaale, a small town in the south of Uganda, near Tanzania, in East Africa. The area is known as Rakai District. The population is mostly farmers. Although people are poor, there is enough food. But this district is suffering from AIDS more than any other part of the world. Some say that it started there. Estimations are that 10 to 30% of the Ugandans are infected with HIV. Because parents die, there are many orphans. In this district about 60,000 children have lost one or both parents, out of a population of 350,000. And this is still continuing.

The children need a lot of help. The KCC is working hard to provide the needy with food, medical care and education. Food and medical care to keep them healthy now, and education so that they can take care of themselves in the future. KCC works on a Christian base, but help is given to children of any religion.

The key to solving the problems in this area is education. This has been neglected in the past years with president Idi Amin and the following civil wars. Now that the government is stable again, the children and parents have to learn how to take care of themselves and how to avoid infections. There is also help for people who are ill and hungry, but the primary goal is to prevent people from getting ill and to teach them how to grow healthy food.

Most of the orphans are living in an extended family. An uncle or older sister is taking care of them. Because these families are big and the income (if any) is low, a child is lucky if it gets healthy food. Clothes, medical care and schooling is beyond its reach. To help these needy children, a sponsorship program was put into place. A child can be financially adopted. For a few dollars a month KCC sees to it that the child gets indispensable items, is healthy, goes to school and KCC takes care of anything else that needs to be done for the child and the family that supports it.

Besides helping the child directly, the environment where the child grows up needs to be improved. KCC helps schools to improve their teaching methods. There is a demonstration school at the centre and teacher trainings are given. Health workers are being trained, hygiene education is carried out and households are stimulated to build a proper latrine. I helped setting up a production site for cement slabs. These are used to build a good latrine. They are sold below cost price.

There is a small clinic at the project, which provides children and their family with medical help. When needed, transport to a hospital is offered. Immunization programs are carried out and help is provided when an epidemic is breaking out (measles and cholera have been a problem).

donate

Summer 1994 to summer 1995 I spent a whole year at the centre, working as a volunteer. I have helped to expand the centre and worked in the area of water and sanitation. I learned that the help that the KCC provides really helps. When I came back to Holland, I wanted to continue supporting KCC. To do this I'm raising funds and organizing the sponsorship program. Please consider one of these possibilities:

1. Sponsor a child in primary school: 17 euro a month (or more).
2. Sponsor a child in secondary school: 25 euro a month (or more).
3. Sponsor the clinic: Any amount a month or quarter
4. A one-time donation

Compared with other organizations that do child sponsorship
the amounts are
very low. This is because the money goes directly to the centre. Less than 5% is used for administration. This is possible because this is a small organization that works with volunteers. If you would like to sponsor a child, you should have the intention to do this for at least one year.

How do you know that the money will be spent right? First of all you have my personal guarantee as the author of Vim. I trust the people that are working at the centre, I know them personally. Furthermore, the centre has been co-sponsored and inspected by World Vision, Save the Children Fund and is now under the supervision of Pacific Academy Outreach Society. The centre is visited about once a year to check the progress (at our own cost). I have visited the centre myself many times, starting in 1993. The visit reports are on the ICCF web site.

If you have any further questions, send me e-mail: <Bram@vim.org>.

The address of the centre is:
Kibaale Children's Centre
p.o.
box 1658
Masaka, Uganda, East Africa

Sending money: *iccf-donations*

Check the ICCF web site for the latest information! See |iccf| for the URL.

USA: The methods mentioned below can be used.
Sending a check to the Nehemiah Group Outreach Society (NGOS) is no longer possible, unfortunately. We are looking for another way to get you an IRS tax receipt.
For sponsoring a child contact KCF in Canada (see below). US checks can be sent to them to lower banking costs.

Canada: Contact Kibaale Children's Fund (KCF) in Surrey, Canada. They take care of the Canadian sponsors for the children in Kibaale. KCF forwards 100% of the money to the project in Uganda. You can send them a one time donation directly. Please send me a note so that I know what has been donated because of Vim. Ask KCF for information about sponsorship.

Kibaale Children's Fund c/o Pacific Academy
10238-168 Street
Surrey, B.C. V4N 1Z4
Canada
Phone: 604-581-5353

If you make a donation to Kibaale Children's Fund (KCF) you will receive a tax receipt which can be submitted with your tax return.

Holland: Transfer to the account of "Stichting ICCF Holland" in Lisse. This will allow for tax deduction if you live in Holland.

Postbank, nr. 4548774
IBAN: NL95 INGB 0004 5487 74

Germany: It is possible to make donations that allow for a tax return. Check the ICCF web site for the latest information:

http://iccf-holland.org/germany.html

World: Use a postal money order. That should be possible from any country, mostly from the post office. Use this name (which is in my passport): "Abraham Moolenaar". Use Euro for the currency if possible.

Europe: Use a bank transfer if possible. Your bank should have a form that you can use for this. See "Others" below for the swift code and IBAN number.
Any other method should work. Ask for information about sponsorship.

Credit Card: You can use PayPal to send money with a Credit card. This is the most widely used Internet based payment system. It's really simple to use. Use this link to find more info:

https://www.paypal.com/en_US/mrb/pal=XAC62PML3GF8Q

The e-mail address for sending the money to is:

Bram@iccf-holland.org

For amounts above 400 Euro ($500) sending a check is preferred.

Others: Transfer to one of these accounts if possible:

Postbank, account 4548774

Swift code: INGB NL 2A
IBAN: NL95 INGB 0004 5487 74
under the name "stichting ICCF Holland", Lisse
If that doesn't work:
Rabobank Lisse, account 3765.05.117
Swift code: RABO NL 2U
under the name "Bram Moolenaar", Lisse
Otherwise, send a check in euro or US dollars to the address
below. Minimal amount: $70 (my bank does not accept smaller
amounts for foreign check, sorry)

Address to send checks to:
Bram Moolenaar
Finsterruetihof 1
8134 Adliswil
Switzerland

This address is expected to be valid for a long time.

vim:tw=78:ts=8:noet:ft=help:norl:

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Arnaud LE HORS BULL Research FRANCE -- Koala Project
(XPM - X PixMap format version 2 & 3)

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- You clearly describe in the distribution how to contact you. This contact information must remain valid for at least three years after last distributing the corresponding modified Vim, or as long as possible.

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3) A message must be added, at least in the output of the ":version" command and in the intro screen, such that the user of the modified Vim is able to see that it was modified. When distributing as mentioned under 2)e) adding

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4) The contact information as required under 2)a) and 2)d) must not be removed or changed, except that the person himself can make

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1.4997 unzip 6.0-26ubuntu3.2

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own source and binary releases.

This is the Info-ZIP file COPYING (for UnZip), last updated 17 Jul 2000.

FIRST NOTE:
This file contains some details about the copyright history of
contributions to the UnZip project.
Additionally, it summarises some exceptions to the general BSD-like
copyright found in LICENSE that covers our generic code and most of
the system specific ports.
Please read LICENSE first to find out what is allowed to do with

Info-ZIP's UnZip code.

- -

There are currently two explicit copyrights on portions of UnZip
code (at least, of which Info-ZIP is aware):
Jim Luther's Mac OS File Manager interface code; and Christopher Evans'
MacBinaryIII coding code (for the MacOS port).. These copyrights
are discussed in more detail below.

All remaining
code is now (starting with UnZip version 5.41) covered
by the new Info-ZIP license. For details, please read the acompaning
file LICENSE. The terms and conditions in this license supersede the
copyright conditions of the contributions by Igor Mandrichenko
(vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c),
Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket
UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompresseion
core routines, previously put into the public domain). All these
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Frequently Asked Questions regarding (re)distribution of Zip and UnZip
are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys
claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding_, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement of output routines; addition of inflate(), wildcards,
filename-mapping, text translation, ...; etc.). As far as we can
tell, only the core code of the unreduce method remained substantially
similar to Mr. Smith's original source. As of UnZip
5.42, the complete
core code is now covered by the Info-ZIP Licence. Therefore, support
for the reduce method has been removed.
The drop of the reduce method should only affect some test archives,

reducing was never used in any publically distributed Zip program.
For pathologic cases where support for reduced archive entries is
needed, the unreduce code copyrighted by Samuel H. Smith is available
as a separate distribution (the restricted copyright of this code is
cited below in the "historical" section).

The following copyright applies to the Mac OS File Manager interface code
(macos/source/macstuff.[ch]), distributed with UnZip 5.4 and later:

```
  * MoreFiles
  *
  * A collection of File Manager and related routines
  *
  * by Jim Luther (Apple Macintosh Developer Technical Support Emeritus)
  * with significant code contributions by Nitin Ganatra
  * (Apple Macintosh Developer Technical Support Emeritus)
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  *
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  *
  *  Basic encoding and decoding of Macintosh files to the
```

```
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Greg Roelofs (overall program logic, ZipInfo, unshrink, filename
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Kai Uwe Rommel (OS/2), John Bush and Paul Kienitz (Amiga), Antoine
Verheijen (Macintosh), Hunter Goatley (more VMS), Mike White (Windows
DLLs), Christian Spieler (overall logic, optimization, VMS, etc.) and
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The decompression core code for the deflate method (inflate.[ch],
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1.4998 patch 2.7.6-7build2

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1.5011 rich 14.1.0

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1.5012 x-net 0.42.0

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1.5013 github.com/prometheus/blackbox_exporter 0.27.0

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1.5014 grpc-go 1.74.2

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1.5015 google-golang-org-api 0.238.0

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1.5016 x-crypto 0.40.0

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1.5017 kubernetes-component-base 0.33.3

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1.5018 kubernetes-apiserver 0.33.3

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
```

in the Corefile
 SevNewDefault = "newdefault" // added to the default corefile. CoreDNS may not function properly if it is not present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
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==========
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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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Protocol Buffers for Go with Gadgets

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==========
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1.5033 sqlite 3.37.2-2ubuntu0.5

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1.5034 json-logging 1.5.1

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1.5035 etcd-client 3.6.4

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Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the project governance.

Overview

The etcd features fall into three stages, experimental, stable, and unsafe.

Experimental

Any new feature is usually added as an experimental feature. An experimental feature is characterized as below:
- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default when added initially.
- Support for such a feature may be dropped at any time without notice
  - Feature-related issues may be given lower priorities.
  - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to a stable future.

Stable

A stable feature is characterized as below:
- Supported as part of the supported releases of etcd.
- May be enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

Unsafe

Unsafe features are rare and listed under the `Unsafe feature:` section in the etcd usage documentation. By default, they are disabled. They should be used with caution following documentation. An unsafe feature can be removed in the next minor or major release without following the feature deprecation policy.

Development Guidelines

Adding a new feature

Any new enhancements to the etcd are typically added as an experimental feature. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions and will evolve over time.

- Open an issue
  - It must provide a clear need for the proposed feature.
  - It should list development work items as checkboxes. There must be one work item towards future graduation to a stable future.
  - Label the issue with `type/feature` and `experimental`.
  - Keep the issue open for tracking purposes until a decision is made on graduation.
- Open a Pull Request (PR)
  - Provide unit tests. Integration tests are also recommended as possible.
  - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at a later time before the feature graduation to the stable feature.
  - Provide logs for proper debugging.
  - Provide metrics and benchmarks as needed.
  - The Feature should be disabled by default.
  - Any configuration flags related to the implementation of the feature must be prefixed with `experimental` e.g. `--experimental-feature-name`.
  - Add a CHANGELOG entry.
- At least two maintainers must approve feature requirements and related code changes.

Graduating an Experimental feature to Stable

It is important that experimental features don't get stuck in that stage.
They should be revisited and moved to the stable stage following the graduation steps as described here.

Locate graduation candidate

Decide if an experimental feature is ready for graduation to the stable stage.

- Find the issue that was used to enable the experimental feature initially. One way to find such issues is to search for issues with `type/feature` and `experimental` labels.
- Fix any known open issues against the feature.
- Make sure the feature was enabled for at least one previous release. Check the PR(s) reference from the issue to see when the feature-related code changes were merged.

Provide implementation

If an experimental feature is found ready for graduation to the stable stage, open a Pull Request (PR) with the following changes.

- Add robust e2e tests if not already provided.
- Add a new stable feature flag identical to the experimental feature flag but without the `--experimental` prefix.
- Deprecate the experimental feature following the [feature deprecation policy](#Deprecating-a-feature).
- Implementation must ensure that both the graduated and deprecated experimental feature flags work as expected. Note that both these flags will co-exist for the timeframe described in the feature deprecation policy.
- Enable the graduated feature by default if needed.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

Deprecating a feature

Experimental
An experimental feature deprecates when it graduates to the stable stage.
- Add a deprecation message in the documentation of the experimental feature with a recommendation to use a related stable feature. e.g. `DEPRECATED. Use <feature-name> instead.`
- Add a `deprecated` label in the issue that was initially used to enable the experimental feature.

Stable
As the project evolves, a stable feature may sometimes need to be deprecated and removed. Such a situation should be handled using the steps below:
- Create an issue for tracking
 purposes.
- Add a deprecation message in the feature usage documentation before a planned release for feature deprecation. e.g. `To be deprecated in <release>.`. If a new feature replaces the `To be deprecated` feature, then also provide a message saying so. e.g. `Use <feature-name> instead.`.
- Deprecate the feature in the planned release with a message as part of the feature usage documentation. e.g. `DEPRECATED`. If a new feature replaces the deprecated feature, then also provide a message saying so. e.g. `DEPRECATED. Use <feature-name> instead.`.
- Add a `deprecated` label in the related issue.

Remove the deprecated feature in the following release. Close any related issue(s). At least two maintainers must approve the work. Patch releases should not be considered for deprecation.
Set up the local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

Local standalone cluster

Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

```
$ ./etcd
...
```

If the `etcd` binary is not present in the current working directory, it might be located either at `$GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running etcd member listens on `localhost:2379` for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

```
$ ./etcdctl put foo bar
OK
```

If OK is printed, storing the key-value pair is successful.

2. Retrieve the value of `foo`:

```
$ ./etcdctl get foo
bar
```

If `bar` is returned, interaction with the etcd cluster is working as expected.

Local multi-member cluster

Starting a cluster

A `Procfile` at the base of the etcd git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the etcd source tree and perform the following:

1. Install `goreman` to control Procfile-based applications:

```
$ go install github.com/mattn/goreman@latest
```

The installation will place executables in the $GOPATH/bin. If $GOPATH environment variable is not set, the tool will be installed into the $HOME/go/bin. Make sure that $PATH is set accordingly in your environment.

2. Start a cluster with `goreman` using etcd's stock Procfile:

```
$ goreman -f Procfile start
```

The members start running. They listen on `localhost:2379`, `localhost:22379`, and `localhost:32379` respectively for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Print
 the list of members:

```
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
```

The list of etcd members is displayed as follows:

```
+------------------+---------+--------+-----------------------+-----------------------+
|       ID         | STATUS  |  NAME  |       PEER ADDRS      |      CLIENT ADDRS     |
+------------------+---------+--------+-----------------------+-----------------------+
| 8211f1d0f64f3269 | started | infra1 | http://127.0.0.1:2380  | http://127.0.0.1:2379  |
| 91bc3c398fb3c146 | started | infra2 | http://127.0.0.1:22380 | http://127.0.0.1:22379 |
| fd422379fda50e48 | started | infra3 | http://127.0.0.1:32380 | http://127.0.0.1:32379 |
+------------------+---------+--------+-----------------------+-----------------------+
```

2. Store an example key-value pair in the cluster:

```
$ etcdctl put foo bar
OK
```

If OK is printed, storing the key-value pair is successful.

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The `Procfile` lists the properties of the multi-member cluster. For example, consider the member with the process name, `etcd2`.

2. Stop the member:

```
# kill etcd2
$ goreman run stop etcd2
```

3. Store a key:

```
$ etcdctl put key hello
```

OK
```

4. Retrieve the key that is stored in the previous step:

```
$ etcdctl get key
hello
```

5. Retrieve a key from the stopped member:

```
$ etcdctl --endpoints=localhost:22379 get key
```

The command should display an error caused by connection failure:

```
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc = "transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"
Error: grpc:
timed out trying to connect
```

6. Restart the stopped member:

```
$ goreman run restart etcd2
```

7. Get the key from the restarted member:

```
$ etcdctl --endpoints=localhost:22379 get key
hello
```

Restarting the member re-establishs the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [interacting with etcd section][interacting].

[clustering]: https://etcd.io/docs/latest/op-guide/clustering/
[interacting]: https://etcd.io/docs/latest/dev-guide/interacting_v3/
Branch management

Guide

* New development occurs on the [main branch][main].
* The main branch should always have a green build!
```

* Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
* Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a *rolling release model* and supports two stable versions of etcd.

Main branch

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md#release-management) will be assigned to the major/minor version and will lead the etcd community in testing, bug-fix, and documentation of the release for one to two weeks.

Stable branches

All branches with
 the prefix `release-` are considered _stable_ branches.

After every minor release (semver.org), we will have a new stable branch for that release, managed by a [patch release manager](./release.md#release-management). We will keep fixing the backward-compatible bugs for the latest two stable releases. A _patch_ release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: https://github.com/etcd-io/etcd/tree/main
Issue triage guidelines

Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example, an issue that is identified as a bug will be set to the label `type/bug`.

The etcd project uses labels to indicate common attributes such as `area`, `type`, and `priority` of incoming issues.

New issues will often start without any labels, but typically `etcd` maintainers, reviewers, and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

Scope

This document serves as the primary guidelines for triaging incoming issues in `etcd`.

All contributors are encouraged and welcome to help manage issues which will help reduce the burden on project maintainers, though the work and responsibilities discussed in this document are created with `etcd` project

reviewers and members in mind as these individuals will have
triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md) for guidance on becoming an etcd project member or reviewer.

Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

* [Issues that have no labels](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel)
* [Issues created recently](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+)
* [Issues not assigned but linked pr](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr)
* [Issues with no comments](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0+)
* [Issues with help wanted](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22+)

##
Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

Issues that don't belong to etcd

Sometimes issues are reported that belong to other projects that `etcd` use. For example, `grpc` or `golang` issues. Such issues should be addressed by asking the reporter to open issues in the appropriate other projects.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking purposes. If you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access to close the issue.

Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the @etcd-io/members
group to request a member with triage access close the issue.

Step 3 - Apply the appropriate type of label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

Support requests

As a general rule, the focus for etcd support is to address common themes in a broad way that helps all users, i.e.

through channels like known issues, frequently asked questions, and high-quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually, they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be raised as [discussions](https://github.com/etcd-io/etcd/discussions).

Common
types of support requests are:

1. Questions about configuring or operating existing well-documented etcd features, for example, <https://github.com/etcd-io/etcd/issues/15945>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.

2. Bug reports or questions about unsupported versions of etcd, for example <https://github.com/etcd-io/etcd/issues/15796>. When responding to these issues please refer to our [supported versions documentation](https://etcd.io/docs/latest/op-guide/versioning) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not make the effort to run a supported version of etcd or ensure their version is patched.

3. Bug reports that do not provide a complete list of steps to reproduce the issue and/or contributors
are not able to reproduce the issue, for example, <https://github.com/etcd-io/etcd/issues/15740>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide the necessary information to accept the bug report.

4. General questions that are filed using feature request or bug report issue templates, for example, <https://github.com/etcd-io/etcd/issues/15914>. Note - These types of requests may surface good additions to our [frequently asked questions](https://etcd.io/docs/v3.5/faq).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.

2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](https://github.com/etcd-io/etcd/discussions).
>
> We are trying to consolidate the channels to which
questions for help/support are posted so that we can improve our efficiency in responding to your requests, and make it easier for you to find answers to frequently asked questions and how to address common use cases.
>
> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.
>

> Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:
>
> 1. [user documentation](https://etcd.io/docs/latest)
> 2. [frequently asked questions](https://etcd.io/docs/v3.5/faq)
>
> Again, thanks for using etcd and raising this question.
>
> The etcd team

3. Finally, click `Convert to discussion` on the right-hand panel,
 selecting the appropriate discussion category.

Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however, if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with the findings and close the trivial issue. For non-trivial issues, wait to hear back from the issue reporter and see if there is any objection. If the issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue is fresh for the issue reporter.

Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however, if this is missing for an issue you determine to be a feature please add the label manually.

Test flakes

Test flakes
 are a specific type of bug that the etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however, if this is missing for an issue you determine to be related to a flaking test please add the label manually.

Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

| Label | Notes |

| --- | --- |
area/external	Tracking label for issues raised that are external to etcd.
area/community	
area/raft	
area/clientv3	
area/performance	
area/security	
area/tls	
area/auth	
area/etcdctl	
area/etcdutl	
area/contrib	Not to be confused with `area/community` this label is specifically used for issues relating to community-maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project.
area/documentation	
area/tooling	Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test, or release process, for example, tooling to create sboms.
area/testing	
area/robustness-testing	

Step 5 - Prioritise the issue

If an issue lacks a priority label it has not been formally prioritized yet.

Adding a `priority` label helps the etcd project understand what is important and should be worked on now, and conversely, what is not as important and is on the project backlog.

Priority label	What it means	Examples
`priority/critical-urgent`	Maintainers are responsible for making sure that these issues (in their area) are being actively worked oni.e., drop what you're doing. The stuff is burning. These should be fixed before the next release.	user-visible critical bugs in core features broken builds on tier1 supported platforms tests and critical security issues
`priority/important-soon`	Must be staffed and worked on either currently or very soonideally in time for the next release.	
`priority/important-longterm`	Important over the long term, but may not be currently staffed and/or may require multiple releases to complete.	
`priority/backlog`	General agreement that this is a nice-to-have, but no one's available to work on it anytime soon. Community contributions would be most welcome in the meantime, though it might take a while to get them reviewed if reviewers are fully occupied with higher-priority issuesfor example, immediately before a release.|	
`priority/awaiting-more-evidence`	Possibly useful, but not yet enough support to actually get it done.	Mostly placeholders for potentially good ideas, so that they don't get completely forgotten, and can be referenced or deduped every time they come up

Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue

would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

* **Low Barrier to Entry** - It should be easy for new contributors.

* **Clear** - The task is agreed upon and does not require further discussions in the community.

* **Goldilocks priority** - The priority
 should not be so high that a core contributor should do it, but not too low that it isnt useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

* **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

*
 Solution Explained - The recommended solution is clearly described in the issue.

* **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

* **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

* **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesnt have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

Track important issues

If an issue is at risk of being closed by the stale bot in the future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does not lose sight of the issue.

Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if the issue reporter does not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.
PR management

Purpose

Speed up PR management.

The `etcd` PRs are listed at https://github.com/etcd-io/etcd/pulls
A PR can have various labels, milestones, reviewers, etc. The detailed list of labels can be found at https://github.com/kubernetes/kubernetes/labels

Following are a few example searches on PR for convenience:
* [Open PRS for milestone etcd-v3.6](https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6)
* [PRs under investigation](https://github.com/etcd-io/etcd/labels/Investigating)

Scope

These guidelines serve as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document are created with `etcd` maintainers and active contributors in mind.

Ensure tests are run

The etcd project use Kubernetes Prow and GitHub Actions to run tests. To ensure all required tests run if a pull request is ready for testing and still has the `needs-ok-to-test` label then please comment on the pull request `/ok-to-test`.

Handle inactive PRs
Poke PR owner if review comments are not addressed in 15 days. If the PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting a review if a quick response is not provided. If the response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on Slack.

Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.
Roadmap

etcd uses GitHub milestones to track all tasks in each major or minor release. The `roadmap.md` file only records the
most important tasks for each release. The list is based on the current maintainer capacity that may shift over time. Proposed milestones are what we think we can deliver with the people we have. If we have more support on the important
stuff, we could pick up more items from the backlog. Note that etcd will continue to mainly focus on technical debt over
the next few major or minor releases.

Each item has an assigned priority. Refer to [priority definitions](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage_issues.md#step-5---prioritise-the-issue).

v3.6.0

For a full list of tasks in `v3.6.0`, please see [milestone etcd-v3.6](https://github.com/etcd-io/etcd/milestone/38).

Title	Priority	Status	Note
[Support downgrade](https://github.com/etcd-io/etcd/issues/11716)	priority/important-soon	In progress	etcd will support downgrade starting from 3.6.0. But it will also support offline downgrade from 3.5 to 3.4.
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	priority/important-soon	In progress	This task will be covered in both 3.6 and 3.7.
[Release raft 3.6.0](https://github.com/etcd-io/raft/issues/89)	priority/important-soon	Not started	etcd 3.6.0 will depends on raft 3.6.0
[Release bbolt 1.4.0](https://github.com/etcd-io/bbolt/issues/553)	priority/important-soon	Not started	etcd 3.6.0 will depends on bbolt 1.4.0
[Support /livez and /readyz endpoints](https://github.com/etcd-io/etcd/issues/16007)	priority/important-longterm	In progress	It provides clearer APIs, and can also work around the stalled writes issue
[Bump gRPC](https://github.com/etcd-io/etcd/issues/16290)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.

| [Deprecate grpc-gateway
 or bump it](https://github.com/etcd-io/etcd/issues/14499) | priority/important-longterm | Completed | It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk. |
| [bbolt: Add logger into bbolt](https://github.com/etcd-io/bbolt/issues/509) | priority/important-longterm | Completed | It's important to diagnose bbolt issues |
| [bbolt: Add surgery commands](https://github.com/etcd-io/bbolt/issues/370) | priority/important-longterm | Completed | Surgery commands are important for fixing corrupted db files |
| [Evaluate and (Gradulate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292) | priority/backlog | Not started | This task will be covered in both 3.6 and
 3.7. |

v3.7.0

For a full list of tasks in `v3.7.0`, please see [milestone etcd-v3.7](https://github.com/etcd-io/etcd/milestone/39).

Title	Priority	Note
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	P0	Finish the remaining tasks 3.7.
[Refactor lease: Lease might be revoked by mistake by old leader](https://github.com/etcd-io/etcd/issues/15247)	P1	to be investigated & discussed
[Integrate raft's new feature (async write) into etcd](https://github.com/etcd-io/etcd/issues/16291)	P1	It should improve the performance
[bbolt: Support customizing the bbolt rebalance threshold](https://github.com/etcd-io/bbolt/issues/422)	P2	It may get rid of etcd's defragmentation. Both bbolt and etcd need to be changed.
[Evaluate and (graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	P2	Finish the remaining tasks 3.7.

Backlog (future releases)

Title	Priority	Note
[Remove the dependency on
grpc-go's experimental API](https://github.com/etcd-io/etcd/issues/15145)		
[Protobuf: cleanup both golang/protobuf and gogo/protobuf](https://github.com/etcd-io/etcd/issues/14533)		
[Proposals should include a merkle root](https://github.com/etcd-io/etcd/issues/13839)		
[Add Distributed Tracing using OpenTelemetry](https://github.com/etcd-io/etcd/issues/12460)		
[Support CA rotation](https://github.com/etcd-io/etcd/issues/11555)		
[bbolt: Migrate all commands to cobra style commands](https://github.com/etcd-io/bbolt/issues/472)		
[raft: enhance the configuration change validation](https://github.com/etcd-io/raft/issues/80)		

Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep this document up-to-date if making changes to the release process.

Release management

The following pool of release candidates manages the release of each etcd major/minor version as well as manages patches
to each stable release branch. They are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

- Benjamin Wang [@ahrtr](https://github.com/ahrtr)
- James Blair [@jmhbnz](https://github.com/jmhbnz)
- Marek Siarkowicz [@serathius](https://github.com/serathius)
- Sahdev Zala [@spzala](https://github.com/spzala)
- Wenjia Zhang [@wenjiaswe](https://github.com/wenjiaswe)

All release version numbers follow the format of [semantic versioning 2.0.0](http://semver.org/).

Major, minor version release, or its pre-release

- Ensure
 the relevant [milestone](https://github.com/etcd-io/etcd/milestones) on GitHub is complete. All referenced issues should be closed or moved elsewhere.
- Ensure the latest [upgrade documentation](https://etcd.io/docs/next/upgrades) is available.
- Bump [hardcoded MinClusterVerion in the repository](https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29), if necessary.
- Add feature capability maps for the new version, if necessary.

Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- The cherrypick PRs should target the appropriate release branch (`base:release-<major>-<minor>`). The k8s infra cherry pick robot `/cherrypick <branch>` PR chatops command may be used to automatically generate cherrypick PRs.
- The release patch manager reviews the cherrypick PRs. Please discuss carefully what is backported
 to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

Write a release note

- Write an introduction for the new release. For example, what major bug we fix, what new features we introduce, or what performance improvement we make.
- Put `[GH XXXX]` at the head of the change line to reference the Pull Request that introduces the change.

Moreover, add a link on it to jump to the Pull Request.
- Find PRs with the `release-note` label and explain them in the `NEWS` file, as a straightforward summary of changes for end-users.

Patch release criteria

The etcd project aims to release a new patch version if any of the following conditions are met:

- Fixed one or more major CVEs (>=7.5).
- Fixed one or more critical bugs.
- Fixed three or more major bugs.
- Fixed five or more minor bugs.

Release guide

Prerequisites

There are some
 prerequisites, which should be done before the release process. These are one-time operations,
which don't need to be executed before releasing each version.
1. Generate a GPG key and add it to your GitHub account. Refer to the links on
[settings](https://github.com/settings/keys).
2. Ensure you have a Linux machine, on which the git, Golang, and docker have been installed.
   - Ensure the Golang version matches the version defined in `.go-version` file.
   - Ensure non-privileged users can run docker commands, refer to the [Linux
postinstall](https://docs.docker.com/engine/install/linux-postinstall/).
   - Ensure there is at least 5GB of free space on your Linux machine.
3. Install gsutil, refer to [gsutil_install](https://cloud.google.com/storage/docs/gsutil_install). When asked about cloud project to use, pick `etcd-development`.
4. Authenticate the image registry, refer to [Authentication methods](https://cloud.google.com/container-registry/docs/advanced-authentication).
  - `gcloud
 auth login`
  - `gcloud auth configure-docker`
5. Install gh, refer to [GitHub's documentation](https://github.com/cli/cli#installation). Ensure that running
  `gh auth login` succeeds for the GitHub account you use to contribute to etcd,
  and that `gh auth status` has a clean exit and doesn't show any issues.

Release steps

1. Raise an issue to publish the release plan, e.g. [issues/17350](https://github.com/etcd-io/etcd/issues/17350).
2. Raise a `kubernetes/org` pull request to temporarily elevate permissions for the GitHub release team.
3. Once permissions are elevated, temporarily relax [branch protections](https://github.com/etcd-io/etcd/settings/branches) to allow pushing changes directly to `release-*` branches in GitHub.
4. Verify you can pass the authentication to the image registries,
  - `docker login gcr.io`
  - `docker login quay.io`
    - If the release person doesn't have access to 1password, one of the owners (@ahrtr, @ivanvc, @jmhbnz,

@serathius) needs
 to share the password with them per [this guide](https://support.1password.com/share-items/). See rough steps below,
    - [Sign in](https://team-etcd.1password.com/home) to your account on 1password.com.
    - Click `Your Vault Items` on the right side.
    - Select `Password of quay.io`.
    - Click `Share` on the top right, and set expiration as `1 hour` and only available to the release person using his/her email.
    - Click `Copy Link` then send the link to the release person via slack or email.
5. Clone the etcd repository and checkout the target branch,
  - `git clone --branch release-3.X git@github.com:etcd-io/etcd.git`
6. Run the release script under the repository's root directory, replacing `${VERSION}` with a value without the `v` prefix, i.e. `3.5.13`.
  - `DRY_RUN=false ./scripts/release.sh ${VERSION}`
  - **NOTE:** When doing a pre-release (i.e., a version from the main branch, 3.6.0-alpha.2), you will need to explicitly set the branch to main:

  ```
    DRY_RUN=false BRANCH=main ./scripts/release.sh ${VERSION}
    ```

  It generates all release binaries under the directory `/tmp/etcd-release-${VERSION}/etcd/release/` and images. Binaries are pushed to the Google Cloud bucket
  under project `etcd-development`, and images are pushed to `quay.io` and `gcr.io`.
7. Publish the release page on GitHub
  - Open the **draft** release URL shown by the release script
  - Click the pen button at the top right to edit the release
  - Review that it looks correct, reviewing that the bottom checkboxes are checked depending on the
    release version (v3.4 no checkboxes, v3.5 has the set as latest release checkbox checked,
    v3.6 has the set as pre-release checkbox checked)
  - Then, publish the release
8. Announce to the etcd-dev googlegroup

  Follow the format of previous release emails sent to etcd-dev@googlegroups.com, see an example below. After sending out the email, ask one of the mailing list maintainers to approve the
 email from the pending list. Additionally, label the release email as `Release`.

```text
Hello,

etcd v3.4.30 is now public!

https://github.com/etcd-io/etcd/releases/tag/v3.4.30

Thanks to everyone who contributed to the release!

etcd team
```

9. Update the changelog to reflect the correct release date.
10. Paste the release link to the issue raised in Step 1 and close the issue.
11. Restore standard branch protection settings and raise a follow-up `kubernetes/org` pull request to return to least privilege permissions.
12. Crease a new stable branch through `git push origin release-${VERSION_MAJOR}.${VERSION_MINOR}` if this is a new major or minor stable release.
13. Re-generate a new password for quay.io if needed (e.g. shared to a contributor who isn't in the release team, and we should rotate the password at least once every 3 months).

Release known issues

1. Timeouts pushing binaries - If binaries fail to fully upload to Google Cloud storage, the script must be re-run using the same command. Any artifacts that are already pushed will be overwritten to ensure they are correct. The storage bucket does not use object versioning so incorrect files cannot remain.

2. Timeouts pushing images - It is rare, although possible for connection timeouts to occur when publishing etcd release images to `quay.io` or `gcr.io`. If this occurs, it is known to be safe to rerun the release script command appending the `--no-upload` flag, and image uploads will gracefully resume.

3. GPG vs SSH signing - The release scripts assume that git tags will be signed with a GPG key. Since 2022 GitHub has supported [signing commits and tags using ssh](https://github.blog/changelog/2022-08-23-ssh-commit-verification-now-supported). Until further release script updates are completed you will need to disable this feature in your `~/.gitconfig` and revert to signing via GPG to perform etcd releases.
Golang modules

The etcd project (since version 3.5) is organized into multiple
[golang modules](https://golang.org/ref/mod) hosted in a [single repository](https://golang.org/ref/mod#vcs-dir).

![modules graph](modules.svg)

There are the following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions
(like protos & proto-generated libraries) that defines communication protocol
between etcd clients and servers.

- **go.etcd.io/etcd/pkg/v3** - a collection of utility packages used by etcd
without being specific to etcd itself. A package belongs here
only if it could possibly be moved out into its own repository in the future.
Please avoid adding here code that has a lot of dependencies on its own, as
they automatically become dependencies of the client library
(that we want to keep lightweight).

- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over
the network (grpc). Recommended for all new usage of etcd.

- **go.etcd.io/raft/v3**

- implementation of distributed consensus
protocol. Should have no etcd specific code. Hosted in a separate repository:
https://github.com/etcd-io/raft.

- **go.etcd.io/etcd/server/v3** - etcd implementation.
The code in this package is internal to etcd and should not be consumed
by external projects. The package layout and API can change within the minor versions.

- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.

- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd.
  Notice: All unit tests (fast and not requiring cross-module dependencies)
  should be kept in the local modules of the code under the test.

- **go.etcd.io/bbolt** - implementation of persistent b-tree.
  Hosted in a separate repository: https://github.com/etcd-io/bbolt.

Operations

1. All etcd modules should be released in the same versions, e.g.
  `go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.

  The consistent updating of versions can be performed using:
  ```shell script
  % DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
  ```
2. The released modules should be tagged according to https://golang.org/ref/mod#vcs-version rules,
  i.e. each module should get its own tag.
  The tagging can be performed using:
  ```shell script
  % DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
  ```

3. All etcd modules should depend on the same versions of underlying dependencies.
  This can be verified using:
  ```shell script
  % PASSES="dep" ./test.sh
  ```

4. The go.mod files must not contain dependencies not being used and must
  conform to `go mod tidy` format.
  This is being verified by:
  ```
  % PASSES="mod_tidy" ./test.sh
  ```

5. To trigger actions across all modules (e.g. auto-format all files), please

use/expand the following script:
```shell script
% ./scripts/fix.sh
```

###
Future

As a North Star, we would like to evaluate etcd modules towards the following model:

![modules graph](modules-future.svg)

This assumes:
- Splitting etcdmigrate/etcdadm out of etcdctl binary.
  Thanks to this etcdctl would become clearly a command-line wrapper
  around network client API,
  while etcdmigrate/etcdadm would support direct physical operations on the
  etcd storage files.
- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code
  so carries additional risk & dependencies.
- Deprecation of support for v2 protocol.

Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:

- Specific. Include as many details as possible: which version, what environment, what configuration, etc. If the bug is related to running the etcd server, please attach the etcd log (the starting log with the etcd configuration is especially important).

- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please include the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack trace to the bug report.

- Isolated. Please try to isolate and reproduce the bug with
 minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide guidance in the right direction or help with using etcd itself.

- Unique. Do not duplicate existing bug reports.

- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

Frequently asked questions

How to get a stack trace

```bash
$ kill -QUIT $PID
```

How to get the etcd version

```bash
$ etcd --version
```

How to get etcd configuration and log when it runs as systemd service etcd2.service

```bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```

Due to an upstream systemd bug, journald
may miss the last few log lines when its processes exit. If journalctl says etcd stopped without a fatal or panic message, try `sudo journalctl -f -t etcd2` to get the full log.

[etcd-issue]: https://github.com/etcd-io/etcd/issues/new
[filing-good-bugs]: http://fantasai.inkedblade.net/style/talks/filing-good-bugs/
Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

Role	Responsibilities	Requirements	Defined by
Member	Active contributor in the community	Sponsored by 2 reviewers and multiple contributions	etcd GitHub org member
Reviewer	Review contributions from other members	History of review and authorship	[OWNERS] file reviewer entry
Maintainer	Set direction and priorities for the project	Demonstrated responsibility and excellent technical judgement	[OWNERS] file approver entry

New contributors

New contributors should be welcomed to the community by existing members,

helped with
PR workflow, and directed to relevant documentation and
communication channels.

Established community members

Established community members are expected to demonstrate their adherence to the
principles in this document, familiarity with project organization, roles,
policies, procedures, conventions, etc., and technical and/or writing ability.
Role-specific expectations, responsibilities, and requirements are enumerated
below.

Member

Members are continuously active contributors to the community. They can have
issues and PRs assigned to them. Members are expected to remain active
contributors to the community.

Defined by: Member of the etcd GitHub organization.

Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
  - Authoring or reviewing PRs on GitHub. At least one PR must be **merged**.
  - Filing or commenting on issues on
GitHub
  - Contributing to community discussions (e.g. meetings, Slack, email discussion
    forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com](https://groups.google.com/g/etcd-dev)
- Have read the [contributor guide]
- Sponsored by two active maintainers or reviewers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Open a [membership nomination] issue against the `kubernetes/org` repo
  - Ensure your sponsors are @mentioned on the issue
  - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying
the maintainers.

Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
  - Code is well-tested
  - Tests consistently pass
  - Addresses bugs or issues discovered after code is accepted

Note: Members who frequently contribute code are expected to proactively perform code reviews and work towards becoming a *reviewer*.

Reviewers

Reviewers are contributors who have demonstrated greater skill in reviewing the code from other contributors. They are knowledgeable about both the codebase and software engineering principles. Their LGTM counts towards merging a code change into the project. A reviewer is generally on the ladder towards maintainership.

Defined by: *reviewers* entry in the [OWNERS] file.

Requirements

- member for at least 3 months.
- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions
- Responsible for project quality control via code reviews
  - Focus on code quality and correctness, including testing and factoring
  - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

Maintainers

Maintainers are first and foremost contributors who have shown they are committed to the long-term success of a project. Maintainership is about building trust with the current maintainers and being a person that they can depend on to make decisions in the best interest of the project in a consistent manner.

Defined by: *approvers* entry in the [OWNERS] file.

Requirements

- Deep understanding of the technical goals and direction of the project
- Deep understanding of the technical domain of the project
- Sustained contributions to design and direction by doing all of:
  - Authoring and reviewing proposals
  - Initiating, contributing, and resolving discussions (emails, GitHub issues, meetings)
  - Identifying subtle or complex issues in the designs and implementation of PRs
- Directly contributed to the project through implementation and/or review
- Sponsored by two active maintainers and elected by supermajority
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
- To become a maintainer send an email with your candidacy to etcd-maintainers-private@googlegroups.com
  - Ensure your sponsors are @mentioned in the email
  - Include a list of contributions representative of your work on the project.
  -

Existing maintainers vote will privately and respond to the email with either acceptance or feedback for suggested improvement.

- With your membership approved you are expected to:
- Open a PR and add an entry to the [OWNERS] file
- Subscribe to etcd-maintainers@googlegroups.com and etcd-maintainers-private@googlegroups.com
- Request to join [etcd-maintainer teams of etcd organization of GitHub](https://github.com/orgs/etcd-io/teams/maintainers-etcd)
- Request to join the private slack channel for etcd maintainers on [kubernetes slack](http://slack.kubernetes.io/)
- Request access to etcd-development GCP project where we publish releases
- Request access to passwords shared between maintainers

Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities
- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and release process]
- Ensure the continued health of the project
  - Adequate test coverage to confidently release
  - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision-making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

Retiring

Life priorities, interests, and passions can change. Maintainers can retire and move to [emeritus maintainers]. If a maintainer needs to step down, they should inform other maintainers and, if possible, help find someone to pick up the related work. At the very least, ensure the related work can be continued. Afterward, they can remove themselves from the list of existing maintainers.

If a maintainer has not been performing their duties for 12 months,
they can be removed by other maintainers. In that case, the inactive maintainer will
be first notified via an email. If the situation doesn't improve, they will be
removed.
If an emeritus maintainer wants to regain an active role, they can do
so by renewing their contributions. Active maintainers should welcome such a move.
Retiring other maintainers or regaining the status should require the approval
of at least two active maintainers.

Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

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[Kubernetes community membership]: https://github.com/kubernetes/community/blob/master/community-membership.md
[emeritus maintainers]: /README.md#etcd-emeritus-maintainers
[security disclosure and release process]: /security/README.md
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Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *levels*. A log message's level is determined according to these conventions:

* Debug: Everything is still fine, but even common operations may be logged, and less helpful but more quantity of

notices. Usually not used in production.
 * Examples:
   * Send a normal message to a remote peer
   * Write a log entry to disk

* Info: Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in a normal server's operation.
 * Examples:
   * Startup configuration
   * Start to do a snapshot

* Warning: (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.
 * Examples:
   * Failure to send a raft message to a remote peer
   * Failure to receive heartbeat message within the configured election
 timeout

* Error: Data has been lost, a request has failed for a bad reason, or a required resource has been lost.
 * Examples:
   * Failure to allocate disk space for WAL

* Panic: Unrecoverable or unexpected error situation that requires stopping execution.
 * Examples:
   * Failure to create the database

* Fatal: Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.
 * Examples:
   * Failure to find the data directory
   * Failure to run a test function

[zap]: https://github.com/uber-go/zap
Dependency management

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Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`,
see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678).
Usually, human intervention is required
each time when dependabot automatically opens some PRs to bump dependencies.
Please see the guidance below.

Dependencies used in workflows

The PRs that automatically bump dependencies (see examples below) used in workflows are fine and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)
- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:
if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then
it doesn't matter to bump which module first. For
example, multiple modules depend on `github.com/spf13/cobra`, so we need to bump the dependency
in the following order,

- go.etcd.io/etcd/pkg/v3
- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <https://etcd.io/docs/next/dev-internal/modules>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow the steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```bash
cd ${ETCD_ROOT_DIR}/etcdctl
```

```
go get github.com/spf13/cobra@v1.7.0
go mod tidy
cd ..
./scripts/fix.sh
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```bash
git
 add .
git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
```

Please close the related PRs which were automatically opened by dependabot.

When you bump multiple dependencies in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example,
you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

Troubleshooting

In an event of bumping the version of protoc, protoc plugins or grpc-gateway, it might change `*.proto` file which can result in the following error:

```bash
[0;31mFAIL: 'genproto' FAILED at Wed Jul 31 07:09:08 UTC 2024
make: *** [Makefile:134: verify-genproto] Error 255
```

To fix the above error, run the following script from the root of etcd repository:

```bash
./scripts/genproto.sh
```

Indirect dependencies

Usually, we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If
 an indirect dependency (e.g. `D1`) causes any CVE or bugs that affect etcd, usually the module (e.g. `M1`, not part of etcd, but used by etcd)
which depends on it should bump the dependency (`D1`), and then etcd just needs to bump `M1`. However, if the module (`M1`) somehow doesn't
bump the problematic dependency, then etcd can still bump it (`D1`) directly following the same steps above. But as a long-term solution, etcd should

try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

- Bump the dependency for all modules, no matter it's direct or indirect dependency.
- Bump the dependency only for modules that directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first way. Eventually we
should fix the issue and ensure all modules depend on the same version of the
dependency.

Known incompatible dependency updates

arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](https://github.com/etcd-io/etcd/pull/16016)

Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.
Usually, human intervention is required each time. We have a [rotation worksheet](https://docs.google.com/spreadsheets/d/1jodHIO7Dk2VWTs1IRnfMFaRktS9IH8XRyifOnPdSY8I/edit#gid=1394774387),
and everyone is welcome to participate; you just need to register your name in the worksheet.

Stable branches

Usually, we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to
execute it for 3.4.

Golang versions

The etcd project aims to maintain a development branch that
is on the latest [Go version](https://go.dev/dl), ideally, this will align with the Go version in use for Kubernetes project development. For an example of how to update etcd to a new minor release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16393> and the linked pull requests.

Suggested steps for performing a minor version upgrade for the etcd development branch:

1. Carefully review new Go version release notes and potentially related blog posts for any deprecations,

performance impacts, or other considerations.
2. Create a GitHub issue to signal intent to upgrade and invite discussion, for example, <https://github.com/etcd-io/etcd/issues/16393>.
3. Complete the upgrade locally in your development environment by editing `.go-version` and running `make fix`.
4. Run performance benchmarks locally to compare before and after.
5. Raise a pull request for the changes, for example, <https://github.com/etcd-io/etcd/pull/16394>.

Stable etcd release branches will be maintained
 to stay on the latest patch release of a supported Go version. Upgrading minor versions will be completed before the minor version in use currently is no longer supported. Refer to the [Go release
policy](https://go.dev/doc/devel/release).

For an example of how to update etcd to a new patch release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16343> and the linked pull requests.

References:

- <https://github.com/kubernetes/sig-release/blob/master/release-engineering/handbooks/go.md>

Core dependencies mappings

[bbolt](https://github.com/etcd-io/bbolt) and [raft](https://github.com/etcd-io/raft) are two core dependencies of etcd.

Both etcd 3.4.x and 3.5.x depend on bbolt 1.3.x, and etcd 3.6.x (`main` branch) depends on bbolt 1.4.x.

raft is included in the etcd repository for release-3.4 and release-3.5 branches, so etcd 3.4.x and 3.5.x do not depend on any
external raft module. We moved raft into [a separate repository](https://github.com/etcd-io/raft) starting
 from 3.6 (`main` branch), and the first raft
release will be v3.6.0, so etcd 3.6.x will depend on raft 3.6.x.

Please see the table below:

etcd versions	bbolt versions	raft versions
3.4.x	v1.3.x	N/A
3.5.x	v1.3.x	N/A
3.6.x	v1.4.x	v3.6.x

1.5036 etcd-api 3.6.4

1.5036.1 Available under license :

Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the

project governance.

Overview

The etcd features fall into three stages, experimental, stable, and unsafe.

Experimental

Any new feature is usually added as an experimental feature. An experimental feature is characterized as below:
- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default when added initially.
- Support for such a feature may be dropped at any time without notice
  - Feature-related issues may be given lower priorities.
  - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to a stable future.

Stable

A stable feature is characterized as below:
- Supported as part of the supported releases of etcd.
-
 May be enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

Unsafe

Unsafe features are rare and listed under the `Unsafe feature:` section in the etcd usage documentation. By default, they are disabled. They should be used with caution following documentation. An unsafe feature can be removed in the next minor or major release without following the feature deprecation policy.

Development Guidelines

Adding a new feature

Any new enhancements to the etcd are typically added as an experimental feature. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions and will evolve over time.
- Open an issue
  - It must provide a clear need for the proposed feature.
  - It should list development work items as checkboxes. There must be one work item towards future graduation to a stable future.
  - Label the issue with `type/feature` and `experimental`.
  - Keep the issue open for tracking purposes until a decision is made on graduation.
- Open a Pull Request (PR)
  - Provide unit tests. Integration tests are also recommended as possible.
  - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at a later time before the feature graduation to the stable feature.

- Provide logs for proper debugging.
- Provide metrics and benchmarks as needed.
- The Feature should be disabled by default.
- Any configuration flags related to the implementation of the feature must be prefixed with `experimental` e.g. `--experimental-feature-name`.
- Add a CHANGELOG entry.

- At least two maintainers must approve feature requirements and related code changes.

Graduating an Experimental feature to Stable

It is important that experimental features don't get stuck in that stage.
They should be revisited and moved to the stable stage following the graduation steps as described here.

Locate graduation candidate

Decide if an experimental feature is ready for graduation to the stable stage.

- Find the issue that was used to enable the experimental feature initially. One way to find such issues is to search for issues with `type/feature` and `experimental` labels.
- Fix any known open issues against the feature.
- Make sure the feature was enabled for at least one previous release. Check the PR(s) reference from the issue to see when the feature-related code changes were merged.

Provide implementation

If an experimental feature is found ready for graduation to the stable stage, open a Pull Request (PR) with the following changes.

- Add robust e2e tests if not already provided.
- Add a new stable feature flag identical to the experimental feature flag but without the `--experimental` prefix.
- Deprecate the experimental feature following the [feature deprecation policy](#Deprecating-a-feature).
- Implementation must ensure that both the graduated and deprecated experimental feature flags work as expected. Note that both these flags will co-exist for the timeframe described in the feature deprecation policy.
- Enable the graduated feature by default if needed.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

Deprecating a feature

Experimental

An experimental feature deprecates when it graduates to the stable stage.

- Add a deprecation message in the documentation of the experimental feature with a recommendation to use a related stable feature. e.g. `DEPRECATED. Use <feature-name> instead.`
- Add a `deprecated` label in the issue that was initially used to enable the experimental feature.

Stable

As the project evolves, a stable feature may sometimes need to be deprecated and removed. Such a situation should be handled using the steps below:

- Create an issue for tracking purposes.
- Add a deprecation message in the feature usage documentation before a planned release for feature deprecation.

e.g. `To be deprecated in <release>.`. If a new feature replaces the `To be deprecated` feature, then also provide a message saying so. e.g. `Use <feature-name> instead.`.
- Deprecate the feature in the planned release with a message as part of the feature usage documentation. e.g. `DEPRECATED`. If a new feature replaces the deprecated feature, then also provide a message saying so. e.g. `DEPRECATED. Use <feature-name> instead.`.
- Add a `deprecated` label in the related issue.

Remove the deprecated feature in the following release. Close any related issue(s). At least two maintainers must approve the work. Patch releases should not be considered for deprecation.
Set up the local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

Local standalone cluster

Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

```
$ ./etcd
...
```

If the `etcd` binary is not present in the current working directory, it might be located either at `$GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running etcd member listens on `localhost:2379` for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

   ```
   $ ./etcdctl put foo bar
   OK
   ```

   If OK is printed, storing the key-value pair is successful.

2. Retrieve the value of `foo`:

   ```
   $ ./etcdctl get foo
   bar
   ```

```

If `bar` is returned, interaction with the etcd
cluster is working as expected.

## Local multi-member cluster

### Starting a cluster

A `Procfile` at the base of the etcd git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the etcd source tree and perform the following:

1. Install `goreman` to control Procfile-based applications:

```
$ go install github.com/mattn/goreman@latest
```

The installation will place executables in the $GOPATH/bin. If $GOPATH environment variable is not set, the tool will be installed into the $HOME/go/bin. Make sure that $PATH is set accordingly in your environment.

2. Start a cluster with `goreman` using etcd's stock Procfile:

```
$ goreman -f Procfile start
```

The members start running. They listen on `localhost:2379`, `localhost:22379`, and `localhost:32379` respectively for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Print
the list of members:

```
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
```

The list of etcd members is displayed as follows:

```
+------------------+---------+--------+------------------------+------------------------+
|       ID         | STATUS  |  NAME  |       PEER ADDRS       |      CLIENT ADDRS      |
+------------------+---------+--------+------------------------+------------------------+
| 8211f1d0f64f3269 | started | infra1 | http://127.0.0.1:2380  | http://127.0.0.1:2379  |
| 91bc3c398fb3c146 | started | infra2 | http://127.0.0.1:22380 | http://127.0.0.1:22379 |
| fd422379fda50e48 | started | infra3 | http://127.0.0.1:32380 | http://127.0.0.1:32379 |
```
```

```
+------------------+---------+--------+-----------------------+-----------------------+
```

2. Store an example key-value pair in the cluster:

```
$ etcdctl put foo bar
OK
```

If OK is printed, storing the key-value pair is successful.

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The `Procfile` lists the properties of the multi-member cluster. For example, consider the member with the process name, `etcd2`.

2. Stop the member:

```
# kill etcd2
$ goreman run stop etcd2
```

3. Store a key:

```
$ etcdctl put key hello
OK
```

4. Retrieve the key that is stored in the previous step:

```
$ etcdctl get key
hello
```

5. Retrieve a key from the stopped member:

```
$ etcdctl --endpoints=localhost:22379 get key
```

The command should display an error caused by connection failure:

```
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc = "transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"
Error:  grpc:
timed out trying to connect
```

6. Restart the stopped member:

```
$ goreman run restart etcd2
```

7. Get the key from the restarted member:

```
$ etcdctl --endpoints=localhost:22379 get key
hello
```

Restarting the member re-establishs the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [interacting with etcd section][interacting].

[clustering]: https://etcd.io/docs/latest/op-guide/clustering/
[interacting]: https://etcd.io/docs/latest/dev-guide/interacting_v3/
Branch management

Guide

* New development occurs on the [main branch][main].
* The main branch should always have a green build!
* Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
* Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a *rolling release model* and supports two stable versions of etcd.

Main branch

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md#release-management) will be assigned to the major/minor version and will lead the etcd community in testing, bug-fix, and documentation of the release for one to two weeks.

Stable branches

All branches with
 the prefix `release-` are considered _stable_ branches.

After every minor release (semver.org), we will have a new stable branch for that release, managed by a [patch release manager](./release.md#release-management). We will keep fixing the backward-compatible bugs for the latest two stable releases. A _patch_ release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: https://github.com/etcd-io/etcd/tree/main
Issue triage guidelines

Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example, an issue that is identified as a bug will be set to the label `type/bug`.

The etcd project uses labels to indicate common attributes such as `area`, `type`, and `priority` of incoming issues.

New issues will often start without any labels, but typically `etcd` maintainers, reviewers, and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

Scope

This document serves as the primary guidelines for triaging incoming issues in `etcd`.

All contributors are encouraged and welcome to help manage issues which will help reduce the burden on project maintainers, though the work and responsibilities discussed in this document are created with `etcd` project reviewers and members in mind as these individuals will have
 triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md) for guidance on becoming an etcd project member or reviewer.

Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

* [Issues that have no labels](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel)
* [Issues created recently](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+)
* [Issues not assigned but linked pr](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr)

* [Issues with no comments](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0+)
* [Issues with help wanted](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22+)

Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

Issues that don't belong to etcd

Sometimes issues are reported that belong to other projects that `etcd` use. For example, `grpc` or `golang` issues. Such issues should be addressed by asking the reporter to open issues in the appropriate other projects.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking purposes. If you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access to close the issue.

Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access close the issue.

Step 3 - Apply the appropriate type of label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

Support requests

As a general rule, the focus for etcd support is to address common themes in a broad way that helps all users, i.e. through channels like known issues, frequently asked questions, and high-quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually, they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be raised as [discussions](https://github.com/etcd-io/etcd/discussions).

Common types of support requests are:

1. Questions about configuring or operating existing well-documented etcd features, for example, <https://github.com/etcd-io/etcd/issues/15945>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.

2. Bug reports or questions about unsupported versions of etcd, for example <https://github.com/etcd-io/etcd/issues/15796>. When responding to these issues please refer to our [supported versions documentation](https://etcd.io/docs/latest/op-guide/versioning) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not make the effort to run a supported version of etcd or ensure their version is patched.

3. Bug reports that do not provide a complete list of steps to reproduce the issue and/or contributors are not able to reproduce the issue, for example, <https://github.com/etcd-io/etcd/issues/15740>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide the necessary information to accept the bug report.

4. General questions that are filed using feature request or bug report issue templates, for example, <https://github.com/etcd-io/etcd/issues/15914>. Note - These types of requests may surface good additions to our [frequently asked questions](https://etcd.io/docs/v3.5/faq).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.

2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](https://github.com/etcd-io/etcd/discussions).
>
> We are trying to consolidate the channels to which questions for help/support are posted so that we can improve our efficiency in responding to your requests, and make it easier for you to find answers to frequently asked questions and how to address common use cases.
>
> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.
>
> Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:
>
> 1. [user documentation](https://etcd.io/docs/latest)
> 2. [frequently asked questions](https://etcd.io/docs/v3.5/faq)
>
> Again, thanks for using etcd and raising this question.
>
> The etcd team

3. Finally, click `Convert to discussion` on the right-hand panel, selecting the appropriate discussion category.

Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however, if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with the findings and close the trivial issue. For non-trivial issues, wait to hear back from the issue reporter and see if there is any objection. If the issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue is fresh for the issue reporter.

Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however, if this is missing for an issue you determine to be a feature please add the label manually.

Test flakes

Test flakes
are a specific type of bug that the etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however, if this is missing for an issue you determine to be related to a flaking test please add the label manually.

Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

Label	Notes
area/external	Tracking label for issues raised that are external to etcd.
area/community	
area/raft	
area/clientv3	
area/performance	
area/security	
area/tls	
area/auth	
area/etcdctl	
area/etcdutl	
area/contrib	Not to be confused with `area/community` this label is specifically used for issues relating to community-maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project.

area/documentation	
area/tooling	Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test, or release process, for example, tooling to create sboms.
area/testing	
area/robustness-testing	

Step 5 - Prioritise the issue

If an issue lacks a priority label it has not been formally prioritized yet.

Adding a `priority` label helps the etcd project understand what is important and should be worked on now, and conversely, what is not as important and is on the project backlog.

Priority label	What it means	Examples
`priority/critical-urgent`
Maintainers are responsible for making sure that these issues (in their area) are being actively worked oni.e., drop what you're doing. The stuff is burning. These should be fixed before the next release.	user-visible critical bugs in core features broken builds on tier1 supported platforms tests and critical security issues
`priority/important-soon`	Must be staffed and worked on either currently or very soonideally in time for the next release.	
`priority/important-longterm`	Important over the long term, but may not be currently staffed and/or may require multiple releases to complete.	
`priority/backlog`	General agreement that this is a nice-to-have, but no one's available to work on it anytime soon. Community contributions would be most welcome in the meantime, though it might take a while to get them reviewed if reviewers are fully occupied with higher-priority issuesfor example, immediately before a release.	
`priority/awaiting-more-evidence`
Possibly useful, but not yet enough support to actually get it done.	Mostly placeholders for potentially good ideas, so that they don't get completely forgotten, and can be referenced or deduped every time they come up

Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

* **Low Barrier to Entry** - It should be easy for new contributors.

* **Clear** - The task is agreed upon and does not require further discussions in the community.

* **Goldilocks priority** - The priority
 should not be so high that a core contributor should do it, but not too low that it isnt useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

* **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

* **Solution Explained** - The recommended solution is clearly described in the issue.

* **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

* **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

* **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesnt have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

Track important issues

If an issue is at risk of being closed by the stale bot in the future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does not lose sight of the issue.

Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if the issue reporter does not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.

PR management

Purpose

Speed up PR management.

The `etcd` PRs are listed at https://github.com/etcd-io/etcd/pulls
A PR can have various labels, milestones, reviewers, etc. The detailed list of labels can be found at https://github.com/kubernetes/kubernetes/labels

Following are a few example searches on PR for convenience:
* [Open PRS for milestone etcd-v3.6](https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6)
* [PRs under investigation](https://github.com/etcd-io/etcd/labels/Investigating)

Scope

These guidelines serve as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document are created with `etcd` maintainers and active contributors in mind.

Ensure tests are run

The etcd project use Kubernetes Prow and GitHub Actions to run tests. To ensure all required tests run if a pull request is ready for testing and still has the `needs-ok-to-test`
 label then please comment on the pull request `/ok-to-test`.

Handle inactive PRs
Poke PR owner if review comments are not addressed in 15 days. If the PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting a review if a quick response is not provided. If the response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on Slack.

Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.
Roadmap

etcd uses GitHub milestones to track all tasks in each major or minor release. The `roadmap.md` file only records the
most important tasks for each release. The list is based on the current maintainer capacity that may shift over time. Proposed milestones are what we think we can deliver with the people we have. If we have more support on the

important
stuff, we could pick up more items from the backlog. Note that etcd will continue to mainly focus on technical debt over
the next few major or minor releases.

Each item has an assigned priority. Refer to [priority definitions](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage_issues.md#step-5---prioritise-the-issue).

v3.6.0

For a full list of tasks in `v3.6.0`, please see [milestone etcd-v3.6](https://github.com/etcd-io/etcd/milestone/38).

Title	Priority	Status	Note
[Support downgrade](https://github.com/etcd-io/etcd/issues/11716)	priority/important-soon	In progress	etcd will support downgrade starting from 3.6.0. But it will also support offline downgrade from 3.5 to 3.4.
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	priority/important-soon	In progress	This task will be covered in both 3.6 and 3.7.
[Release raft 3.6.0](https://github.com/etcd-io/raft/issues/89)	priority/important-soon	Not started	etcd 3.6.0 will depends on raft 3.6.0
[Release bbolt 1.4.0](https://github.com/etcd-io/bbolt/issues/553)	priority/important-soon	Not started	etcd 3.6.0 will depends on bbolt 1.4.0
[Support /livez and /readyz endpoints](https://github.com/etcd-io/etcd/issues/16007)	priority/important-longterm	In progress	It provides clearer APIs, and can also work around the stalled writes issue
[Bump gRPC](https://github.com/etcd-io/etcd/issues/16290)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[Deprecate grpc-gateway or bump it](https://github.com/etcd-io/etcd/issues/14499)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[bbolt: Add logger into bbolt](https://github.com/etcd-io/bbolt/issues/509)	priority/important-longterm	Completed	It's important to diagnose bbolt issues
[bbolt: Add surgery commands](https://github.com/etcd-io/bbolt/issues/370)	priority/important-longterm	Completed	Surgery commands are important for fixing corrupted db files
[Evaluate and (Gradulate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	priority/backlog	Not started	This task will be covered in both 3.6 and 3.7.

v3.7.0

For a full list of tasks in `v3.7.0`, please see [milestone etcd-v3.7](https://github.com/etcd-io/etcd/milestone/39).

Title	Priority	Note
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	P0	Finish the remaining tasks 3.7.
[Refactor lease: Lease might be revoked by mistake by old leader](https://github.com/etcd-io/etcd/issues/15247)	P1	to be investigated & discussed
[Integrate raft's new feature (async write) into etcd](https://github.com/etcd-io/etcd/issues/16291)	P1	It should improve the performance
[bbolt: Support customizing the bbolt rebalance threshold](https://github.com/etcd-io/bbolt/issues/422)	P2	It may get rid of etcd's defragmentation. Both bbolt and etcd need to be changed.
[Evaluate and (graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	P2	Finish the remaining tasks 3.7.

Backlog (future releases)

Title	Priority	Note
[Remove the dependency on grpc-go's experimental API](https://github.com/etcd-io/etcd/issues/15145)		
[Protobuf: cleanup both golang/protobuf and gogo/protobuf](https://github.com/etcd-io/etcd/issues/14533)		
[Proposals should include a merkle root](https://github.com/etcd-io/etcd/issues/13839)		
[Add Distributed Tracing using OpenTelemetry](https://github.com/etcd-io/etcd/issues/12460)		
[Support CA rotation](https://github.com/etcd-io/etcd/issues/11555)		
[bbolt: Migrate all commands to cobra style commands](https://github.com/etcd-io/bbolt/issues/472)		
[raft: enhance the configuration change validation](https://github.com/etcd-io/raft/issues/80)		

Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep this document up-to-date if making changes to the release process.

Release management

The following pool of release candidates manages the release of each etcd major/minor version as well as manages patches
to each stable release branch. They are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

- Benjamin Wang [@ahrtr](https://github.com/ahrtr)

- James Blair [@jmhbnz](https://github.com/jmhbnz)
- Marek Siarkowicz [@serathius](https://github.com/serathius)
- Sahdev Zala [@spzala](https://github.com/spzala)
- Wenjia Zhang [@wenjiaswe](https://github.com/wenjiaswe)

All release version numbers follow the format of [semantic versioning 2.0.0](http://semver.org/).

Major, minor version release, or its pre-release

- Ensure
 the relevant [milestone](https://github.com/etcd-io/etcd/milestones) on GitHub is complete. All referenced issues should be closed or moved elsewhere.
- Ensure the latest [upgrade documentation](https://etcd.io/docs/next/upgrades) is available.
- Bump [hardcoded MinClusterVerion in the repository](https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29), if necessary.
- Add feature capability maps for the new version, if necessary.

Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- The cherrypick PRs should target the appropriate release branch (`base:release-<major>-<minor>`). The k8s infra cherry pick robot `/cherrypick <branch>` PR chatops command may be used to automatically generate cherrypick PRs.
- The release patch manager reviews the cherrypick PRs. Please discuss carefully what is backported
 to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

Write a release note

- Write an introduction for the new release. For example, what major bug we fix, what new features we introduce, or what performance improvement we make.
- Put `[GH XXXX]` at the head of the change line to reference the Pull Request that introduces the change. Moreover, add a link on it to jump to the Pull Request.
- Find PRs with the `release-note` label and explain them in the `NEWS` file, as a straightforward summary of changes for end-users.

Patch release criteria

The etcd project aims to release a new patch version if any of the following conditions are met:

- Fixed one or more major CVEs (>=7.5).
- Fixed one or more critical bugs.
- Fixed three or more major bugs.
- Fixed five or more minor bugs.

Release guide

Prerequisites

There are some
 prerequisites, which should be done before the release process. These are one-time operations,
which don't need to be executed before releasing each version.
1. Generate a GPG key and add it to your GitHub account. Refer to the links on
[settings](https://github.com/settings/keys).
2. Ensure you have a Linux machine, on which the git, Golang, and docker have been installed.
   - Ensure the Golang version matches the version defined in `.go-version` file.
   - Ensure non-privileged users can run docker commands, refer to the [Linux
postinstall](https://docs.docker.com/engine/install/linux-postinstall/).
   - Ensure there is at least 5GB of free space on your Linux machine.
3. Install gsutil, refer to [gsutil_install](https://cloud.google.com/storage/docs/gsutil_install). When asked about
cloud project to use, pick `etcd-development`.
4. Authenticate the image registry, refer to [Authentication methods](https://cloud.google.com/container-
registry/docs/advanced-authentication).
  - `gcloud
 auth login`
  - `gcloud auth configure-docker`
5. Install gh, refer to [GitHub's documentation](https://github.com/cli/cli#installation). Ensure that running
  `gh auth login` succeeds for the GitHub account you use to contribute to etcd,
  and that `gh auth status` has a clean exit and doesn't show any issues.

Release steps

1. Raise an issue to publish the release plan, e.g. [issues/17350](https://github.com/etcd-io/etcd/issues/17350).
2. Raise a `kubernetes/org` pull request to temporarily elevate permissions for the GitHub release team.
3. Once permissions are elevated, temporarily relax [branch protections](https://github.com/etcd-
io/etcd/settings/branches) to allow pushing changes directly to `release-*` branches in GitHub.
4. Verify you can pass the authentication to the image registries,
  - `docker login gcr.io`
  - `docker login quay.io`
    - If the release person doesn't have access to 1password, one of the owners (@ahrtr, @ivanvc, @jmhbnz,
@serathius) needs
 to share the password with them per [this guide](https://support.1password.com/share-items/). See rough steps
below,
      - [Sign in](https://team-etcd.1password.com/home) to your account on 1password.com.
      - Click `Your Vault Items` on the right side.
      - Select `Password of quay.io`.
      - Click `Share` on the top right, and set expiration as `1 hour` and only available to the release person using
his/her email.
      - Click `Copy Link` then send the link to the release person via slack or email.
5. Clone the etcd repository and checkout the target branch,
  - `git clone --branch release-3.X git@github.com:etcd-io/etcd.git`
6. Run the release script under the repository's root directory, replacing `${VERSION}` with a value without the `v`
prefix, i.e. `3.5.13`.
  - `DRY_RUN=false ./scripts/release.sh ${VERSION}`
  - **NOTE:** When doing a pre-release (i.e., a version from the main branch, 3.6.0-alpha.2), you will need to

explicitly set the branch to main:

```
DRY_RUN=false BRANCH=main ./scripts/release.sh ${VERSION}
```

It generates all release binaries under the directory `/tmp/etcd-release-${VERSION}/etcd/release/` and images. Binaries are pushed to the Google Cloud bucket
under project `etcd-development`, and images are pushed to `quay.io` and `gcr.io`.

7. Publish the release page on GitHub
   - Open the **draft** release URL shown by the release script
   - Click the pen button at the top right to edit the release
   - Review that it looks correct, reviewing that the bottom checkboxes are checked depending on the release version (v3.4 no checkboxes, v3.5 has the set as latest release checkbox checked, v3.6 has the set as pre-release checkbox checked)
   - Then, publish the release
8. Announce to the etcd-dev googlegroup

Follow the format of previous release emails sent to etcd-dev@googlegroups.com, see an example below. After sending out the email, ask one of the mailing list maintainers to approve the
email from the pending list. Additionally, label the release email as `Release`.

```text
Hello,

etcd v3.4.30 is now public!

https://github.com/etcd-io/etcd/releases/tag/v3.4.30

Thanks to everyone who contributed to the release!

etcd team
```

9. Update the changelog to reflect the correct release date.
10. Paste the release link to the issue raised in Step 1 and close the issue.
11. Restore standard branch protection settings and raise a follow-up `kubernetes/org` pull request to return to least privilege permissions.
12. Crease a new stable branch through `git push origin release-${VERSION_MAJOR}.${VERSION_MINOR}` if this is a new major or minor stable release.
13. Re-generate a new password for quay.io if needed (e.g. shared to a contributor who isn't in the release team, and we should rotate the password at least once every 3 months).

Release known issues

1. Timeouts pushing binaries - If binaries fail to fully upload to Google Cloud storage, the script must be re-run using the same command. Any artifacts that are already pushed will be overwritten to ensure they are correct. The storage bucket does not use object versioning so incorrect files cannot remain.

2. Timeouts pushing images - It is rare, although possible for connection timeouts to occur when publishing etcd release images to `quay.io` or `gcr.io`. If this occurs, it is known to be safe to rerun the release script command appending the `--no-upload` flag, and image uploads will gracefully resume.

3. GPG vs SSH signing - The release scripts assume that git tags will be signed with a GPG key. Since 2022 GitHub has supported [signing commits and tags using ssh](https://github.blog/changelog/2022-08-23-ssh-commit-verification-now-supported). Until further release script updates are completed you will need to disable this feature in your `~/.gitconfig` and revert to signing via GPG to perform etcd releases.
Golang modules

The etcd project (since version 3.5) is organized into multiple
[golang modules](https://golang.org/ref/mod) hosted in a [single repository](https://golang.org/ref/mod#vcs-dir).

![modules graph](modules.svg)

There are the following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions
(like protos & proto-generated libraries) that defines communication protocol
between etcd clients and servers.

- **go.etcd.io/etcd/pkg/v3** - a collection of utility packages used by etcd
without being specific to etcd itself. A package belongs here
only if it could possibly be moved out into its own repository in the future.
Please avoid adding here code that has a lot of dependencies on its own, as
they automatically become dependencies of the client library
(that we want to keep lightweight).

- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over
the network (grpc). Recommended for all new usage of etcd.

- **go.etcd.io/raft/v3**
- implementation of distributed consensus
protocol. Should have no etcd specific code. Hosted in a separate repository:
https://github.com/etcd-io/raft.

- **go.etcd.io/etcd/server/v3** - etcd implementation.
The code in this package is internal to etcd and should not be consumed
by external projects. The package layout and API can change within the minor versions.

- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.

- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd.
Notice: All unit tests (fast and not requiring cross-module dependencies)
should be kept in the local modules of the code under the test.

- **go.etcd.io/bbolt** - implementation of persistent b-tree.

Hosted in a separate repository: https://github.com/etcd-io/bbolt.

Operations

1. All etcd modules should be released in the same versions, e.g.
   `go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.

   The consistent updating of versions can be performed using:
   ```shell script
   % DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
   ```
2. The released modules should be tagged according to https://golang.org/ref/mod#vcs-version rules,
   i.e. each module should get its own tag.
   The tagging can be performed using:
   ```shell script
   % DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
   ```

3. All etcd modules should depend on the same versions of underlying dependencies.
   This can be verified using:
   ```shell script
   % PASSES="dep" ./test.sh
   ```

4. The go.mod files must not contain dependencies not being used and must
   conform to `go mod tidy` format.
   This is being verified by:
   ```
   % PASSES="mod_tidy" ./test.sh
   ```

5. To trigger actions across all modules (e.g. auto-format all files), please
   use/expand the following script:
   ```shell script
   % ./scripts/fix.sh
   ```

Future

As a North Star, we would like to evaluate etcd modules towards the following model:

![modules graph](modules-future.svg)

This assumes:
- Splitting etcdmigrate/etcdadm out of etcdctl binary.
  Thanks to this etcdctl would become clearly a command-line wrapper

around network client API,
while etcdmigrate/etcdadm would support direct physical operations on the
etcd storage files.
- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code
so carries additional risk & dependencies.
- Deprecation of support for v2 protocol.

Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:

- Specific. Include as many details as possible: which version, what environment, what configuration, etc. If the bug is related to running the etcd server, please attach the etcd log (the starting log with the etcd configuration is especially important).

- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please include the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack trace to the bug report.

- Isolated. Please try to isolate and reproduce the bug with
minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide guidance in the right direction or help with using etcd itself.

- Unique. Do not duplicate existing bug reports.

- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

Frequently asked questions

How to get a stack trace

```bash
$ kill -QUIT $PID
```

How to get the etcd version

```bash
$ etcd --version
```

```

### How to get etcd configuration and log when it runs as systemd service etcd2.service

```bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```

Due to an upstream systemd bug, journald
 may miss the last few log lines when its processes exit. If journalctl says etcd stopped without a fatal or panic message, try `sudo journalctl -f -t etcd2` to get the full log.

[etcd-issue]: https://github.com/etcd-io/etcd/issues/new
[filing-good-bugs]: http://fantasai.inkedblade.net/style/talks/filing-good-bugs/
Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

Role	Responsibilities	Requirements	Defined by
Member	Active contributor in the community	Sponsored by 2 reviewers and multiple contributions	etcd GitHub org member
Reviewer	Review contributions from other members	History of review and authorship	[OWNERS] file reviewer entry
Maintainer	Set direction and priorities for the project	Demonstrated responsibility and excellent technical judgement	[OWNERS] file approver entry

New contributors

New contributors should be welcomed to the community by existing members,
helped with
 PR workflow, and directed to relevant documentation and
communication channels.

Established community members

Established community members are expected to demonstrate their adherence to the
principles in this document, familiarity with project organization, roles,
policies, procedures, conventions, etc., and technical and/or writing ability.
Role-specific expectations, responsibilities, and requirements are enumerated
below.

Member

Members are continuously active contributors to the community. They can have
```

issues and PRs assigned to them. Members are expected to remain active
contributors to the community.

Defined by: Member of the etcd GitHub organization.

Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
  - Authoring or reviewing PRs on GitHub. At least one PR must be **merged**.
  - Filing or commenting on issues on
 GitHub
  - Contributing to community discussions (e.g. meetings, Slack, email discussion
    forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com](https://groups.google.com/g/etcd-dev)
- Have read the [contributor guide]
- Sponsored by two active maintainers or reviewers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Open a [membership nomination] issue against the `kubernetes/org` repo
  - Ensure your sponsors are @mentioned on the issue
  - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying
 the maintainers.

Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
  - Code is well-tested
  - Tests consistently pass
  - Addresses bugs or issues discovered after code is accepted

Note: Members who frequently contribute code are expected to proactively
perform code reviews and work towards becoming a *reviewer*.

Reviewers

Reviewers are contributors who have demonstrated greater skill in
reviewing the code from other contributors. They are knowledgeable about both
the codebase and software engineering principles. Their LGTM counts towards
merging a code change into the project. A reviewer is generally on the ladder towards
maintainership.

Defined by: *reviewers* entry in the [OWNERS] file.

Requirements

- member for at least 3 months.
- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions
- Responsible for project quality control via code reviews
  - Focus on code quality and correctness, including testing and factoring
  - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

Maintainers

Maintainers are first and foremost contributors who have shown they are committed to the long-term success of a project. Maintainership is about building trust with the current maintainers and being a person that they can depend on to make decisions in the best interest of the project in a consistent manner.

Defined by: *approvers* entry in the [OWNERS] file.

Requirements

- Deep understanding of the technical goals and direction of the project
- Deep understanding of the technical domain of the project
- Sustained contributions to design and direction by doing all of:
  - Authoring and reviewing proposals
  - Initiating, contributing, and resolving discussions (emails, GitHub issues, meetings)
  - Identifying subtle or complex issues in the designs and implementation of PRs
- Directly contributed to the project through implementation and/or review
- Sponsored by two active maintainers and elected by supermajority
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
- To become a maintainer send an email with your candidacy to etcd-maintainers-private@googlegroups.com
  - Ensure your sponsors are @mentioned in the email
  - Include a list of contributions representative of your work on the project.
  -

Existing maintainers vote will privately and respond to the email with either acceptance or feedback for suggested improvement.
- With your membership approved you are expected to:
 - Open a PR and add an entry to the [OWNERS] file
 - Subscribe to etcd-maintainers@googlegroups.com and etcd-maintainers-private@googlegroups.com
 - Request to join [etcd-maintainer teams of etcd organization of GitHub](https://github.com/orgs/etcd-io/teams/maintainers-etcd)
 - Request to join the private slack channel for etcd maintainers on [kubernetes slack](http://slack.kubernetes.io/)
 - Request access to etcd-development GCP project where we publish releases
 - Request access to passwords shared between maintainers

Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities
- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and release process]
- Ensure the continued health of the project
  - Adequate test coverage to confidently release
  - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision-making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

Retiring

Life priorities, interests, and passions can change. Maintainers can retire and move to [emeritus maintainers]. If a maintainer needs to step down, they should inform other maintainers and, if possible, help find someone to pick up the related work. At the very least, ensure the related work can be continued. Afterward, they can remove themselves from the list of existing maintainers.

If a maintainer has not been performing their duties for 12 months, they can be removed by other maintainers. In that case, the inactive maintainer will be first notified via an email. If the situation doesn't improve, they will be removed.
If an emeritus maintainer wants to regain an active role, they can do so by renewing their contributions. Active maintainers should welcome such a move. Retiring other maintainers or regaining the status should require the approval of at least two active maintainers.

Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

[OWNERS]: /OWNERS
[contributor guide]: /CONTRIBUTING.md

[membership nomination]: https://github.com/kubernetes/org/issues/new?assignees=&labels=area%2Fgithub-membership&projects=&template=membership.yml&title=REQUEST%3A+New+membership+for+%3Cyour-GH-handle%3E
[Kubernetes community membership]: https://github.com/kubernetes/community/blob/master/community-membership.md
[emeritus maintainers]: /README.md#etcd-emeritus-maintainers
[security disclosure and release process]: /security/README.md
[two-factor authentication]: https://docs.github.com/en/authentication/securing-your-account-with-two-factor-authentication-2fa/about-two-factor-authentication

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Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *levels*. A log message's level is determined according to these conventions:

* Debug: Everything is still fine, but even common operations may be logged, and less helpful but more quantity of notices. Usually not used in production.
  * Examples:
    * Send a normal message to a remote peer
    * Write a log entry to disk

* Info: Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in a normal server's operation.
  * Examples:
    * Startup configuration
    * Start to do a snapshot

* Warning: (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.
  * Examples:
    * Failure to send a raft message to a remote peer

  * Failure to receive heartbeat message within the configured election
 timeout

* Error: Data has been lost, a request has failed for a bad reason, or a required resource has been lost.
 * Examples:
  * Failure to allocate disk space for WAL

* Panic: Unrecoverable or unexpected error situation that requires stopping execution.
 * Examples:
  * Failure to create the database

* Fatal: Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.
 * Examples:
  * Failure to find the data directory
  * Failure to run a test function

[zap]: https://github.com/uber-go/zap
Dependency management

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Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`,
see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678).
Usually, human intervention is required
 each time when dependabot automatically opens some PRs to bump dependencies.
Please see the guidance below.

Dependencies used in workflows

The PRs that automatically bump dependencies (see examples below) used in workflows are fine and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)
- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:
if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then
it doesn't matter to bump which module first. For
example, multiple modules depend on `github.com/spf13/cobra`, so we need to bump the dependency
in the following order,

- go.etcd.io/etcd/pkg/v3
- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <https://etcd.io/docs/next/dev-internal/modules>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow the steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```bash
cd ${ETCD_ROOT_DIR}/etcdctl
go get github.com/spf13/cobra@v1.7.0
go mod tidy
cd ..
./scripts/fix.sh
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```bash
git
 add .
git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
```

Please close the related PRs which were automatically opened by dependabot.

When you bump multiple dependencies in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example,
you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

Troubleshooting

In an event of bumping the version of protoc, protoc plugins or grpc-gateway, it might change `*.proto` file which can result in the following error:

```bash
[0;31mFAIL: 'genproto' FAILED at Wed Jul 31 07:09:08 UTC 2024
make: *** [Makefile:134: verify-genproto] Error 255
```

To fix the above error, run the following script from the root of etcd repository:

```bash
./scripts/genproto.sh
```

Indirect dependencies

Usually, we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If
 an indirect dependency (e.g. `D1`) causes any CVE or bugs that affect etcd, usually the module (e.g. `M1`, not part of etcd, but used by etcd)
which depends on it should bump the dependency (`D1`), and then etcd just needs to bump `M1`. However, if the module (`M1`) somehow doesn't
bump the problematic dependency, then etcd can still bump it (`D1`) directly following the same steps above. But as a long-term solution, etcd should
try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

- Bump the dependency for all modules, no matter it's direct or indirect dependency.
- Bump the dependency only for modules that directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first way. Eventually we
should fix the issue and ensure all modules depend on the same version of the
 dependency.

Known incompatible dependency updates

arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](https://github.com/etcd-io/etcd/pull/16016)

Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.
Usually, human intervention is required each time. We have a [rotation worksheet](https://docs.google.com/spreadsheets/d/1jodHIO7Dk2VWTs1IRnfMFaRktS9IH8XRyifOnPdSY8I/edit#gid=1394774387),
and everyone is welcome to participate; you just need to register your name in the worksheet.

Stable branches

Usually, we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to
execute it for 3.4.

Golang versions

The etcd project aims to maintain a development branch that
is on the latest [Go version](https://go.dev/dl), ideally, this will align with the Go version in use for Kubernetes project development. For an example of how to update etcd to a new minor release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16393> and the linked pull requests.

Suggested steps for performing a minor version upgrade for the etcd development branch:

1. Carefully review new Go version release notes and potentially related blog posts for any deprecations, performance impacts, or other considerations.
2. Create a GitHub issue to signal intent to upgrade and invite discussion, for example, <https://github.com/etcd-io/etcd/issues/16393>.
3. Complete the upgrade locally in your development environment by editing `.go-version` and running `make fix`.
4. Run performance benchmarks locally to compare before and after.
5. Raise a pull request for the changes, for example, <https://github.com/etcd-io/etcd/pull/16394>.

Stable etcd release branches will be maintained
to stay on the latest patch release of a supported Go version. Upgrading minor versions will be completed before the minor version in use currently is no longer supported. Refer to the [Go release policy](https://go.dev/doc/devel/release).

For an example of how to update etcd to a new patch release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16343> and the linked pull requests.

References:

- <https://github.com/kubernetes/sig-release/blob/master/release-engineering/handbooks/go.md>

Core dependencies mappings

[bbolt](https://github.com/etcd-io/bbolt) and [raft](https://github.com/etcd-io/raft) are two core dependencies of etcd.

Both etcd 3.4.x and 3.5.x depend on bbolt 1.3.x, and etcd 3.6.x (`main` branch) depends on bbolt 1.4.x.

raft is included in the etcd repository for release-3.4 and release-3.5 branches, so etcd 3.4.x and 3.5.x do not depend on any
external raft module. We moved raft into [a separate repository](https://github.com/etcd-io/raft) starting
 from 3.6 (`main` branch), and the first raft
release will be v3.6.0, so etcd 3.6.x will depend on raft 3.6.x.

Please see the table below:

etcd versions	bbolt versions	raft versions
3.4.x	v1.3.x	N/A
3.5.x	v1.3.x	N/A
3.6.x	v1.4.x	v3.6.x

1.5037 etcd-client-pkg 3.6.4

1.5037.1 Available under license :

Features

This document provides an overview of etcd features and general development guidelines for adding and deprecating them. The project maintainers can override these guidelines per the need of the project following the project governance.

Overview

The etcd features fall into three stages, experimental, stable, and unsafe.

Experimental

Any new feature is usually added as an experimental feature. An experimental feature is characterized as below:
- Might be buggy due to a lack of user testing. Enabling the feature may not work as expected.
- Disabled by default when added initially.
- Support for such a feature may be dropped at any time without notice
  - Feature-related issues may be given lower priorities.
  - It can be removed in the next minor or major release without following the feature deprecation policy unless it graduates to a stable future.

Stable

A stable feature is characterized as below:
- Supported as part of the supported releases of etcd.
-
 May be enabled by default.
- Discontinuation of support must follow the feature deprecation policy.

Unsafe

Unsafe features are rare and listed under the `Unsafe feature:` section in the etcd usage documentation. By default, they are disabled. They should be used with caution following documentation. An unsafe feature can be removed in the next minor or major release without following the feature deprecation policy.

Development Guidelines

Adding a new feature

Any new enhancements to the etcd are typically added as an experimental feature. The general development requirements are listed below. They can be somewhat flexible depending on the scope of the feature and review discussions and will evolve over time.
- Open an issue
  - It must provide a clear need for the proposed feature.
  - It should list development work items as checkboxes. There must be one work item towards future graduation to a stable future.
  - Label the issue with `type/feature` and `experimental`.
  - Keep the issue open for tracking purposes until a decision is made on graduation.
- Open a Pull Request (PR)
  - Provide unit tests. Integration tests are also recommended as possible.
  - Provide robust e2e test coverage. If the feature being added is complicated or quickly needed, maintainers can decide to go with e2e tests for basic coverage initially and have robust coverage added at a later time before the feature graduation to the stable feature.
  - Provide logs for proper debugging.
  - Provide metrics and benchmarks as needed.
  - The Feature should be disabled by default.
  - Any configuration flags related to the implementation of the feature must be prefixed with `experimental` e.g. `--experimental-feature-name`.
  - Add a CHANGELOG entry.
- At least two maintainers must approve feature requirements and related code changes.

Graduating an Experimental feature to Stable

It is important that experimental features don't get stuck in that stage.
 They should be revisited and moved to the stable stage following the graduation steps as described here.

Locate graduation candidate
Decide if an experimental feature is ready for graduation to the stable stage.

- Find the issue that was used to enable the experimental feature initially. One way to find such issues is to search for issues with `type/feature` and `experimental` labels.
- Fix any known open issues against the feature.
- Make sure the feature was enabled for at least one previous release. Check the PR(s) reference from the issue to see when the feature-related code changes were merged.

Provide implementation
If an experimental feature is found ready for graduation to the stable stage, open a Pull Request (PR) with the following changes.
- Add robust e2e tests if not already provided.
- Add a new stable feature flag identical to the experimental feature flag but without the `--experimental` prefix.
- Deprecate the experimental feature following the [feature deprecation
policy](#Deprecating-a-feature).
- Implementation must ensure that both the graduated and deprecated experimental feature flags work as expected. Note that both these flags will co-exist for the timeframe described in the feature deprecation policy.
- Enable the graduated feature by default if needed.

At least two maintainers must approve the work. Patch releases should not be considered for graduation.

Deprecating a feature

Experimental
An experimental feature deprecates when it graduates to the stable stage.
- Add a deprecation message in the documentation of the experimental feature with a recommendation to use a related stable feature. e.g. `DEPRECATED. Use <feature-name> instead.`
- Add a `deprecated` label in the issue that was initially used to enable the experimental feature.

Stable
As the project evolves, a stable feature may sometimes need to be deprecated and removed. Such a situation should be handled using the steps below:
- Create an issue for tracking
purposes.
- Add a deprecation message in the feature usage documentation before a planned release for feature deprecation. e.g. `To be deprecated in <release>.`. If a new feature replaces the `To be deprecated` feature, then also provide a message saying so. e.g. `Use <feature-name> instead.`.
- Deprecate the feature in the planned release with a message as part of the feature usage documentation. e.g. `DEPRECATED`. If a new feature replaces the deprecated feature, then also provide a message saying so. e.g. `DEPRECATED. Use <feature-name> instead.`.
- Add a `deprecated` label in the related issue.

Remove the deprecated feature in the following release. Close any related issue(s). At least two maintainers must approve the work. Patch releases should not be considered for deprecation.
Set up the local cluster

For testing and development deployments, the quickest and easiest way is to configure a local cluster. For a production deployment, refer to the [clustering][clustering] section.

Local standalone cluster

Starting a cluster

Run the following to deploy an etcd cluster as a standalone cluster:

```
$ ./etcd
...
```

If the `etcd` binary is not present in the current working directory, it might be located either at `$GOPATH/bin/etcd` or at `/usr/local/bin/etcd`. Run the command appropriately.

The running etcd member listens on `localhost:2379` for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Store an example key-value pair in the cluster:

   ```
   $ ./etcdctl put foo bar
   OK
   ```

   If OK is printed, storing the key-value pair is successful.

2. Retrieve the value of `foo`:

   ```
   $ ./etcdctl get foo
   bar
   ```

   If `bar` is returned, interaction with the etcd
 cluster is working as expected.

Local multi-member cluster

Starting a cluster

A `Procfile` at the base of the etcd git repository is provided to easily configure a local multi-member cluster. To start a multi-member cluster, navigate to the root of the etcd source tree and perform the following:

1. Install `goreman` to control Procfile-based applications:

   ```
   ```

```
$ go install github.com/mattn/goreman@latest
```

The installation will place executables in the $GOPATH/bin. If $GOPATH environment variable is not set, the tool will be installed into the $HOME/go/bin. Make sure that $PATH is set accordingly in your environment.

2. Start a cluster with `goreman` using etcd's stock Procfile:

```
$ goreman -f Procfile start
```

The members start running. They listen on `localhost:2379`, `localhost:22379`, and `localhost:32379` respectively for client requests.

Interacting with the cluster

Use `etcdctl` to interact with the running cluster:

1. Print the list of members:

```
$ etcdctl --write-out=table --endpoints=localhost:2379 member list
```

The list of etcd members is displayed as follows:

```
+------------------+---------+--------+------------------------+------------------------+
|       ID         | STATUS  |  NAME  |       PEER ADDRS       |      CLIENT ADDRS      |
+------------------+---------+--------+------------------------+------------------------+
| 8211f1d0f64f3269 | started | infra1 | http://127.0.0.1:2380  | http://127.0.0.1:2379  |
| 91bc3c398fb3c146 | started | infra2 | http://127.0.0.1:22380 | http://127.0.0.1:22379 |
| fd422379fda50e48 | started | infra3 | http://127.0.0.1:32380 | http://127.0.0.1:32379 |
+------------------+---------+--------+------------------------+------------------------+
```

2. Store an example key-value pair in the cluster:

```
$ etcdctl put foo bar
OK
```

If OK is printed, storing the key-value pair is successful.

Testing fault tolerance

To exercise etcd's fault tolerance, kill a member and attempt to retrieve the key.

1. Identify the process name of the member to be stopped.

The `Procfile` lists the properties of the multi-member cluster. For example, consider the member with the process name, `etcd2`.

2. Stop the member:

```
# kill etcd2
$ goreman run stop etcd2
```

3. Store a key:

```
$ etcdctl put key hello
OK
```

4. Retrieve the key that is stored in the previous step:

```
$ etcdctl get key
hello
```

5. Retrieve a key from the stopped member:

```
$ etcdctl --endpoints=localhost:22379 get key
```

The command should display an error caused by connection failure:

```
2017/06/18 23:07:35 grpc: Conn.resetTransport failed to create client transport: connection error: desc = "transport: dial tcp 127.0.0.1:22379: getsockopt: connection refused"; Reconnecting to "localhost:22379"
Error:  grpc:
timed out trying to connect
```

6. Restart the stopped member:

```
$ goreman run restart etcd2
```

7. Get the key from the restarted member:

```
$ etcdctl --endpoints=localhost:22379 get key
hello
```

Restarting the member re-establishs the connection. `etcdctl` will now be able to retrieve the key successfully. To learn more about interacting with etcd, read [interacting with etcd section][interacting].

[clustering]: https://etcd.io/docs/latest/op-guide/clustering/
[interacting]: https://etcd.io/docs/latest/dev-guide/interacting_v3/
Branch management

Guide

* New development occurs on the [main branch][main].
* The main branch should always have a green build!
* Backwards-compatible bug fixes should target the main branch and subsequently be ported to stable branches.
* Once the main branch is ready for release, it will be tagged and become the new stable branch.

The etcd team has adopted a *rolling release model* and supports two stable versions of etcd.

Main branch

The `main` branch is our development branch. All new features land here first.

To try new and experimental features, pull `main` and play with it. Note that `main` may not be stable because new features may introduce bugs.

Before the release of the next stable version, feature PRs will be frozen. A [release manager](./release.md#release-management) will be assigned to the major/minor version and will lead the etcd community in testing, bug-fix, and documentation of the release for one to two weeks.

Stable branches

All branches with
 the prefix `release-` are considered _stable_ branches.

After every minor release (semver.org), we will have a new stable branch for that release, managed by a [patch release manager](./release.md#release-management). We will keep fixing the backward-compatible bugs for the latest two stable releases. A _patch_ release to each supported release branch, incorporating any bug fixes, will be once every two weeks, given any patches.

[main]: https://github.com/etcd-io/etcd/tree/main
Issue triage guidelines

Purpose

Speed up issue management.

The `etcd` issues are listed at <https://github.com/etcd-io/etcd/issues> and are identified with labels. For example, an issue that is identified as a bug will be set to the label `type/bug`.

The etcd project uses labels to indicate common attributes such as `area`, `type`, and `priority` of incoming issues.

New issues will often start without any labels, but typically `etcd` maintainers, reviewers, and members will add labels by following these triage guidelines. The detailed list of labels can be found at <https://github.com/etcd-io/etcd/labels>.

Scope

This document serves as the primary guidelines for triaging incoming issues in `etcd`.

All contributors are encouraged and welcome to help manage issues which will help reduce the burden on project maintainers, though the work and responsibilities discussed in this document are created with `etcd` project reviewers and members in mind as these individuals will have
triage access to the etcd project which is a requirement for actions like applying labels or closing issues.

Refer to [etcd community membership](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/community-membership.md) for guidance on becoming an etcd project member or reviewer.

Step 1 - Find an issue to triage

To get started you can use the following recommended issue searches to identify issues that are in need of triage:

* [Issues that have no labels](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+sort%3Aupdated+no%3Alabel)
* [Issues created recently](https://github.com/etcd-io/etcd/issues?q=is%3Aissue+is%3Aopen+)
* [Issues not assigned but linked pr](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+no%3Aassignee+linked%3Apr)
* [Issues with no comments](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+comments%3A0+)
* [Issues with help wanted](https://github.com/etcd-io/etcd/issues?q=is%3Aopen+is%3Aissue+label%3A%22help+wanted%22+)

Step 2 - Check the issue is valid

Before we start adding labels or trying to work out a priority, our first triage step needs to be working out if the issue actually belongs to the etcd project and is not a duplicate.

Issues that don't belong to etcd

Sometimes issues are reported that belong to other projects that `etcd` use. For example, `grpc` or `golang` issues. Such issues should be addressed by asking the reporter to open issues in the appropriate other projects.

These issues can generally be closed unless a maintainer and issue reporter see a need to keep it open for tracking purposes. If you have triage permissions please close it, alternatively mention the @etcd-io/members group to request a member with triage access to close the issue.

Duplicate issues

If an issue is a duplicate, add a comment stating so along with a reference for the original issue and if you have triage permissions please close it, alternatively mention the @etcd-io/members
group to request a member with triage access close the issue.

Step 3 - Apply the appropriate type of label

Adding a `type` label to an issue helps create visibility on the health of the project and helps contributors identify potential priorities, i.e. addressing existing bugs or test flakes before implementing new features.

Support requests

As a general rule, the focus for etcd support is to address common themes in a broad way that helps all users, i.e. through channels like known issues, frequently asked questions, and high-quality documentation. To make the best use of project members time we should avoid providing 1:1 support if a broad approach is available.

Some people mistakenly use our GitHub bug report or feature request templates to file support requests. Usually, they are asking for help operating or configuring some aspect of etcd. Support requests for etcd should instead be raised as [discussions](https://github.com/etcd-io/etcd/discussions).

Common
types of support requests are:

1. Questions about configuring or operating existing well-documented etcd features, for example, <https://github.com/etcd-io/etcd/issues/15945>. Note - If an existing feature is not well documented please apply the `area/documentation` label and propose documentation improvements that would prevent future users from stumbling on the problem again.

2. Bug reports or questions about unsupported versions of etcd, for example <https://github.com/etcd-io/etcd/issues/15796>. When responding to these issues please refer to our [supported versions documentation](https://etcd.io/docs/latest/op-guide/versioning) and encourage the reporter to upgrade to a recent patch release of a supported version as soon as possible. We should limit the effort supporting users that do not make the effort to run a supported version of etcd or ensure their version is patched.

3. Bug reports that do not provide a complete list of steps to reproduce the issue and/or contributors
are not able to reproduce the issue, for example, <https://github.com/etcd-io/etcd/issues/15740>. We should limit the effort we put into reproducing issues ourselves and motivate users to provide the necessary information to accept the bug report.

4. General questions that are filed using feature request or bug report issue templates, for example, <https://github.com/etcd-io/etcd/issues/15914>. Note - These types of requests may surface good additions to our [frequently asked questions](https://etcd.io/docs/v3.5/faq).

If you identify that an issue is a support request please:

1. Add the `type/support` or `type/question` label.

2. Add the following comment to inform the issue creator that discussions should be used instead and that this issue will be converted to a discussion.

> Thank you for your question, this support issue will be moved to our [Discussion Forums](https://github.com/etcd-io/etcd/discussions).
>
> We are trying to consolidate the channels to which questions for help/support are posted so that we can improve our efficiency in responding to your requests, and make it easier for you to find answers to frequently asked questions and how to address common use cases.
>
> We regularly see messages posted in multiple forums, with the full response thread only in one place or, worse, spread across multiple forums. Also, the large volume of support issues on GitHub is making it difficult for us to use issues to identify real bugs.
>
> Members of the etcd community use Discussion Forums to field support requests. Before posting a new question, please search these for answers to similar questions, and also familiarize yourself with:
>
> 1. [user documentation](https://etcd.io/docs/latest)
> 2. [frequently asked questions](https://etcd.io/docs/v3.5/faq)
>
> Again, thanks for using etcd and raising this question.
>
> The etcd team

3. Finally, click `Convert to discussion` on the right-hand panel, selecting the appropriate discussion category.

Bug reports

If an issue has been raised as a bug it should already have the `type/bug` label, however, if this is missing for an issue you determine to be a bug please add the label manually.

The next step is to validate if the issue is indeed a bug. If not, add a comment with the findings and close the trivial issue. For non-trivial issues, wait to hear back from the issue reporter and see if there is any objection. If the issue reporter does not reply in 30 days, close the issue.

If the problem can not be reproduced or requires more information, leave a comment for the issue reporter as soon as possible while the issue is fresh for the issue reporter.

Feature requests

New feature requests should be created via the etcd feature request template and in theory already have the `type/feature` label, however, if this is missing for an issue you determine to be a feature please add the label manually.

Test flakes

Test flakes
are a specific type of bug that the etcd project tracks separately as these are a priority to address. These should be created via the test flake template and in theory already have the `type/flake` label, however, if this is missing for an issue you determine to be related to a flaking test please add the label manually.

Step 4 - Define the areas impacted

Adding an `area` label to an issue helps create visibility on which areas of the etcd project require attention and helps contributors find issues to work on relating to their particular skills or knowledge of the etcd codebase.

If an issue crosses multiple domains please add additional `area` labels to reflect that.

Below is a brief summary of the area labels in active use by the etcd project along with any notes on their use:

Label	Notes
area/external	Tracking label for issues raised that are external to etcd.
area/community	
area/raft	
area/clientv3	
area/performance	
area/security	
area/tls	
area/auth	
area/etcdctl	
area/etcdutl	
area/contrib	Not to be confused with `area/community` this label is specifically used for issues relating to community-maintained scripts or files in the `contrib/` directory which aren't part of the core etcd project.
area/documentation	
area/tooling	Generally used in relation to the third party / external utilities or tools that are used in various stages of the etcd build, test, or release process, for example, tooling to create sboms.
area/testing	
area/robustness-testing	

Step 5 - Prioritise the issue

If an issue lacks a priority label it has not been formally prioritized yet.

Adding a `priority` label helps the etcd project understand what is important and should be worked on now, and conversely, what is not as important and is on the project backlog.

Priority label	What it means	Examples

| `priority/critical-urgent`
Maintainers are responsible for making sure that these issues (in their area) are being actively worked oni.e., drop what you're doing. The stuff is burning. These should be fixed before the next release.	user-visible critical bugs in core features broken builds on tier1 supported platforms tests and critical security issues
`priority/important-soon`	Must be staffed and worked on either currently or very soonideally in time for the next release.	
`priority/important-longterm`	Important over the long term, but may not be currently staffed and/or may require multiple releases to complete.	
`priority/backlog`	General agreement that this is a nice-to-have, but no one's available to work on it anytime soon. Community contributions would be most welcome in the meantime, though it might take a while to get them reviewed if reviewers are fully occupied with higher-priority issuesfor example, immediately before a release.|
`priority/awaiting-more-evidence`
Possibly useful, but not yet enough support to actually get it done.	Mostly placeholders for potentially good ideas, so that they don't get completely forgotten, and can be referenced or deduped every time they come up

Step 6 - Support new contributors

As part of the `etcd` triage process once the `kind` and `area` have been determined, please consider if the issue would be suitable for a less experienced contributor. The `good first issue` label is a subset of the `help wanted` label, indicating that members have committed to providing extra assistance for new contributors. All `good first issue` items also have the `help wanted` label.

Help wanted

Items marked with the `help wanted` label need to ensure that they meet these criteria:

* **Low Barrier to Entry** - It should be easy for new contributors.

* **Clear** - The task is agreed upon and does not require further discussions in the community.

* **Goldilocks priority** - The priority
should not be so high that a core contributor should do it, but not too low that it isnt useful enough for a core contributor to spend time reviewing it, answering questions, helping get it into a release, etc.

Good first issue

Items marked with `good first issue` are intended for first-time contributors. It indicates that members will keep an eye out for these pull requests and shepherd it through our processes.

New contributors should not be left to find an approver, ping for reviews, decipher test commands, or identify that their build failed due to a flake. It is important to make new contributors feel welcome and valued. We should assure them that they will have an extra level of help with their first contribution.

After a contributor has successfully completed one or two `good first issue` items, they should be ready to move on to `help wanted` items.

* **No Barrier to Entry** - The task is something that a new contributor can tackle without advanced setup or domain knowledge.

*
 Solution Explained - The recommended solution is clearly described in the issue.

* **Gives Examples** - Link to examples of similar implementations so new contributors have a reference guide for their changes.

* **Identifies Relevant Code** - The relevant code and tests to be changed should be linked in the issue.

* **Ready to Test** - There should be existing tests that can be modified, or existing test cases fit to be copied. If the area of code doesnt have tests, before labeling the issue, add a test fixture. This prep often makes a great help wanted task!

Step 7 - Follow up

Once initial triage has been completed, issues need to be re-evaluated over time to ensure they don't become stale incorrectly.

Track important issues

If an issue is at risk of being closed by the stale bot in the future, but is an important issue for the etcd project, then please apply the `stage/tracked` label and remove any `stale` labels that exist. This will ensure the project does not lose sight of the issue.

Close incomplete issues

Issues that lack enough information from the issue reporter should be closed if the issue reporter does not provide information in 30 days. Issues can always be re-opened at a later date if new information is provided.

Check for incomplete work

If an issue owned by a developer has no pull request created in 30 days, contact the issue owner and kindly ask about the status of their work, or to release ownership on the issue if needed.
PR management

Purpose

Speed up PR management.

The `etcd` PRs are listed at https://github.com/etcd-io/etcd/pulls
A PR can have various labels, milestones, reviewers, etc. The detailed list of labels can be found at https://github.com/kubernetes/kubernetes/labels

Following are a few example searches on PR for convenience:
* [Open PRS for milestone etcd-v3.6](https://github.com/etcd-io/etcd/pulls?utf8=%E2%9C%93&q=is%3Apr+is%3Aopen+milestone%3Aetcd-v3.6)
* [PRs under investigation](https://github.com/etcd-io/etcd/labels/Investigating)

Scope

These guidelines serve as a primary document for managing PRs in `etcd`. Everyone is welcome to help manage PRs but the work and responsibilities discussed in this document are created with `etcd` maintainers and active contributors in mind.

Ensure tests are run

The etcd project use Kubernetes Prow and GitHub Actions to run tests. To ensure all required tests run if a pull request is ready for testing and still has the `needs-ok-to-test`
label then please comment on the pull request `/ok-to-test`.

Handle inactive PRs
Poke PR owner if review comments are not addressed in 15 days. If the PR owner does not reply in 90 days, update the PR with a new commit if possible. If not, inactive PR should be closed after 180 days.

Poke reviewer if needed

Reviewers are responsive in a timely fashion, but considering everyone is busy, give them some time after requesting a review if a quick response is not provided. If the response is not provided in 10 days, feel free to contact them via adding a comment in the PR or sending an email or message on Slack.

Verify important labels are in place

Make sure that appropriate reviewers are added to the PR. Also, make sure that a milestone is identified. If any of these or other important labels are missing, add them. If a correct label cannot be decided, leave a comment for the maintainers to do so as needed.
Roadmap

etcd uses GitHub milestones to track all tasks in each major or minor release. The `roadmap.md` file only records the
most important tasks for each release. The list is based on the current maintainer capacity that may shift over time. Proposed milestones are what we think we can deliver with the people we have. If we have more support on the important
stuff, we could pick up more items from the backlog. Note that etcd will continue to mainly focus on technical debt over
the next few major or minor releases.

Each item has an assigned priority. Refer to [priority definitions](https://github.com/etcd-io/etcd/blob/main/Documentation/contributor-guide/triage_issues.md#step-5---prioritise-the-issue).

v3.6.0

For a full list of tasks in `v3.6.0`, please see [milestone etcd-v3.6](https://github.com/etcd-io/etcd/milestone/38).

Title	Priority	Status	Note

-|----------|
[Support downgrade](https://github.com/etcd-io/etcd/issues/11716)	priority/important-soon	In progress	etcd will support downgrade starting from 3.6.0. But it will also support offline downgrade from 3.5 to 3.4.
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	priority/important-soon	In progress	This task will be covered in both 3.6 and 3.7.
[Release raft 3.6.0](https://github.com/etcd-io/raft/issues/89)	priority/important-soon	Not started	etcd 3.6.0 will depends on raft 3.6.0
[Release bbolt 1.4.0](https://github.com/etcd-io/bbolt/issues/553)	priority/important-soon	Not started	etcd 3.6.0 will depends on bbolt 1.4.0
[Support /livez and /readyz endpoints](https://github.com/etcd-io/etcd/issues/16007)	priority/important-longterm	In progress	It provides clearer APIs, and can also work around the stalled writes issue
[Bump gRPC](https://github.com/etcd-io/etcd/issues/16290)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[Deprecate grpc-gateway or bump it](https://github.com/etcd-io/etcd/issues/14499)	priority/important-longterm	Completed	It isn't guaranteed to be resolved in 3.6, and might be postponed to 3.7 depending on the effort and risk.
[bbolt: Add logger into bbolt](https://github.com/etcd-io/bbolt/issues/509)	priority/important-longterm	Completed	It's important to diagnose bbolt issues
[bbolt: Add surgery commands](https://github.com/etcd-io/bbolt/issues/370)	priority/important-longterm	Completed	Surgery commands are important for fixing corrupted db files
[Evaluate and (Gradulate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)	priority/backlog	Not started	This task will be covered in both 3.6 and 3.7.

v3.7.0

For a full list of tasks in `v3.7.0`, please see [milestone etcd-v3.7](https://github.com/etcd-io/etcd/milestone/39).

Title	Priority	Note
[StoreV2 deprecation](https://github.com/etcd-io/etcd/issues/12913)	P0	Finish the remaining tasks 3.7.
[Refactor lease: Lease might be revoked by mistake by old leader](https://github.com/etcd-io/etcd/issues/15247)	P1	to be investigated & discussed
[Integrate raft's new feature (async write) into etcd](https://github.com/etcd-io/etcd/issues/16291)	P1	It should improve the performance
[bbolt: Support customizing the bbolt rebalance threshold](https://github.com/etcd-io/bbolt/issues/422)	P2

| It may get rid of etcd's defragmentation. Both bbolt and etcd need to be changed. |
| [Evaluate and (graduate or deprecate/remove) experimental features](https://github.com/etcd-io/etcd/issues/16292)
| P2 | Finish the remaining tasks 3.7. |

Backlog (future releases)

Title	Priority	Note
[Remove the dependency on
grpc-go's experimental API](https://github.com/etcd-io/etcd/issues/15145)		
[Protobuf: cleanup both golang/protobuf and gogo/protobuf](https://github.com/etcd-io/etcd/issues/14533)		
[Proposals should include a merkle root](https://github.com/etcd-io/etcd/issues/13839)		
[Add Distributed Tracing using OpenTelemetry](https://github.com/etcd-io/etcd/issues/12460)		
[Support CA rotation](https://github.com/etcd-io/etcd/issues/11555)		
[bbolt: Migrate all commands to cobra style commands](https://github.com/etcd-io/bbolt/issues/472)		
[raft: enhance the configuration change validation](https://github.com/etcd-io/raft/issues/80)		

Release

The guide talks about how to release a new version of etcd.

The procedure includes some manual steps for sanity checking, but it can probably be further scripted. Please keep this document up-to-date if making changes to the release process.

Release management

The following pool of release candidates manages the release of each etcd major/minor version as well as manages patches
to each stable release branch. They are responsible for communicating the timelines and status of each release and for ensuring the stability of the release branch.

- Benjamin Wang [@ahrtr](https://github.com/ahrtr)
- James Blair [@jmhbnz](https://github.com/jmhbnz)
- Marek Siarkowicz [@serathius](https://github.com/serathius)
- Sahdev Zala [@spzala](https://github.com/spzala)
- Wenjia Zhang [@wenjiaswe](https://github.com/wenjiaswe)

All release version numbers follow the format of [semantic versioning 2.0.0](http://semver.org/).

Major, minor version release, or its pre-release

- Ensure
the relevant [milestone](https://github.com/etcd-io/etcd/milestones) on GitHub is complete. All referenced issues should be closed or moved elsewhere.
- Ensure the latest [upgrade documentation](https://etcd.io/docs/next/upgrades) is available.
- Bump [hardcoded MinClusterVerion in the repository](https://github.com/etcd-io/etcd/blob/v3.4.15/version/version.go#L29), if necessary.

- Add feature capability maps for the new version, if necessary.

Patch version release

- To request a backport, developers submit cherry-pick PRs targeting the release branch. The commits should not include merge commits. The commits should be restricted to bug fixes and security patches.
- The cherrypick PRs should target the appropriate release branch (`base:release-<major>-<minor>`). The k8s infra cherry pick robot `/cherrypick <branch>` PR chatops command may be used to automatically generate cherrypick PRs.
- The release patch manager reviews the cherrypick PRs. Please discuss carefully what is backported to the patch release. Each patch release should be strictly better than its predecessor.
- The release patch manager will cherry-pick these commits starting from the oldest one into stable branch.

Write a release note

- Write an introduction for the new release. For example, what major bug we fix, what new features we introduce, or what performance improvement we make.
- Put `[GH XXXX]` at the head of the change line to reference the Pull Request that introduces the change. Moreover, add a link on it to jump to the Pull Request.
- Find PRs with the `release-note` label and explain them in the `NEWS` file, as a straightforward summary of changes for end-users.

Patch release criteria

The etcd project aims to release a new patch version if any of the following conditions are met:

- Fixed one or more major CVEs (>=7.5).
- Fixed one or more critical bugs.
- Fixed three or more major bugs.
- Fixed five or more minor bugs.

Release guide

Prerequisites

There are some prerequisites, which should be done before the release process. These are one-time operations, which don't need to be executed before releasing each version.
1. Generate a GPG key and add it to your GitHub account. Refer to the links on [settings](https://github.com/settings/keys).
2. Ensure you have a Linux machine, on which the git, Golang, and docker have been installed.
   - Ensure the Golang version matches the version defined in `.go-version` file.
   - Ensure non-privileged users can run docker commands, refer to the [Linux postinstall](https://docs.docker.com/engine/install/linux-postinstall/).
   - Ensure there is at least 5GB of free space on your Linux machine.
3. Install gsutil, refer to [gsutil_install](https://cloud.google.com/storage/docs/gsutil_install). When asked about cloud project to use, pick `etcd-development`.
4. Authenticate the image registry, refer to [Authentication methods](https://cloud.google.com/container-

registry/docs/advanced-authentication).
  - `gcloud
 auth login`
  - `gcloud auth configure-docker`
5. Install gh, refer to [GitHub's documentation](https://github.com/cli/cli#installation). Ensure that running
  `gh auth login` succeeds for the GitHub account you use to contribute to etcd,
  and that `gh auth status` has a clean exit and doesn't show any issues.

Release steps

1. Raise an issue to publish the release plan, e.g. [issues/17350](https://github.com/etcd-io/etcd/issues/17350).
2. Raise a `kubernetes/org` pull request to temporarily elevate permissions for the GitHub release team.
3. Once permissions are elevated, temporarily relax [branch protections](https://github.com/etcd-io/etcd/settings/branches) to allow pushing changes directly to `release-*` branches in GitHub.
4. Verify you can pass the authentication to the image registries,
  - `docker login gcr.io`
  - `docker login quay.io`
    - If the release person doesn't have access to 1password, one of the owners (@ahrtr, @ivanvc, @jmhbnz, @serathius) needs
 to share the password with them per [this guide](https://support.1password.com/share-items/). See rough steps below,
      - [Sign in](https://team-etcd.1password.com/home) to your account on 1password.com.
      - Click `Your Vault Items` on the right side.
      - Select `Password of quay.io`.
      - Click `Share` on the top right, and set expiration as `1 hour` and only available to the release person using his/her email.
      - Click `Copy Link` then send the link to the release person via slack or email.
5. Clone the etcd repository and checkout the target branch,
  - `git clone --branch release-3.X git@github.com:etcd-io/etcd.git`
6. Run the release script under the repository's root directory, replacing `${VERSION}` with a value without the `v` prefix, i.e. `3.5.13`.
  - `DRY_RUN=false ./scripts/release.sh ${VERSION}`
  - **NOTE:** When doing a pre-release (i.e., a version from the main branch, 3.6.0-alpha.2), you will need to explicitly set the branch to main:

  ```
    DRY_RUN=false BRANCH=main ./scripts/release.sh ${VERSION}
    ```

  It generates all release binaries under the directory `/tmp/etcd-release-${VERSION}/etcd/release/` and images. Binaries are pushed to the Google Cloud bucket
  under project `etcd-development`, and images are pushed to `quay.io` and `gcr.io`.
7. Publish the release page on GitHub
  - Open the **draft** release URL shown by the release script
  - Click the pen button at the top right to edit the release
  - Review that it looks correct, reviewing that the bottom checkboxes are checked depending on the
    release version (v3.4 no checkboxes, v3.5 has the set as latest release checkbox checked,
    v3.6 has the set as pre-release checkbox checked)

- Then, publish the release
8. Announce to the etcd-dev googlegroup

Follow the format of previous release emails sent to etcd-dev@googlegroups.com, see an example below. After sending out the email, ask one of the mailing list maintainers to approve the email from the pending list. Additionally, label the release email as `Release`.

```text
Hello,

etcd v3.4.30 is now public!

https://github.com/etcd-io/etcd/releases/tag/v3.4.30

Thanks to everyone who contributed to the release!

etcd team
```

9. Update the changelog to reflect the correct release date.
10. Paste the release link to the issue raised in Step 1 and close the issue.
11. Restore standard branch protection settings and raise a follow-up `kubernetes/org` pull request to return to least privilege permissions.
12. Crease a new stable branch through `git push origin release-${VERSION_MAJOR}.${VERSION_MINOR}` if this is a new major or minor stable release.
13. Re-generate a new password for quay.io if needed (e.g. shared to a contributor who isn't in the release team, and we should rotate the password at least once every 3 months).

Release known issues

1. Timeouts pushing binaries - If binaries fail to fully upload to Google Cloud storage, the script must be re-run using the same command. Any artifacts that are already pushed will be overwritten to ensure they are correct. The storage bucket does not use object versioning so incorrect files cannot remain.

2. Timeouts pushing images - It is rare, although possible for connection timeouts to occur when publishing etcd release images to `quay.io` or `gcr.io`. If this occurs, it is known to be safe to rerun the release script command appending the `--no-upload` flag, and image uploads will gracefully resume.

3. GPG vs SSH signing - The release scripts assume that git tags will be signed with a GPG key. Since 2022 GitHub has supported [signing commits and tags using ssh](https://github.blog/changelog/2022-08-23-ssh-commit-verification-now-supported). Until further release script updates are completed you will need to disable this feature in your `~/.gitconfig` and revert to signing via GPG to perform etcd releases.
Golang modules

The etcd project (since version 3.5) is organized into multiple [golang modules](https://golang.org/ref/mod) hosted in a [single repository](https://golang.org/ref/mod#vcs-dir).

![modules graph](modules.svg)

There are the following modules:

- **go.etcd.io/etcd/api/v3** - contains API definitions
(like protos & proto-generated libraries) that defines communication protocol
between etcd clients and servers.

- **go.etcd.io/etcd/pkg/v3** - a collection of utility packages used by etcd
without being specific to etcd itself. A package belongs here
only if it could possibly be moved out into its own repository in the future.
Please avoid adding here code that has a lot of dependencies on its own, as
they automatically become dependencies of the client library
(that we want to keep lightweight).

- **go.etcd.io/etcd/client/v3** - client library used to contact etcd over
the network (grpc). Recommended for all new usage of etcd.

- **go.etcd.io/raft/v3**
- implementation of distributed consensus
protocol. Should have no etcd specific code. Hosted in a separate repository:
https://github.com/etcd-io/raft.

- **go.etcd.io/etcd/server/v3** - etcd implementation.
The code in this package is internal to etcd and should not be consumed
by external projects. The package layout and API can change within the minor versions.

- **go.etcd.io/etcd/etcdctl/v3** - a command line tool to access and manage etcd.

- **go.etcd.io/etcd/tests/v3** - a module that contains all integration tests of etcd.
  Notice: All unit tests (fast and not requiring cross-module dependencies)
  should be kept in the local modules of the code under the test.

- **go.etcd.io/bbolt** - implementation of persistent b-tree.
  Hosted in a separate repository: https://github.com/etcd-io/bbolt.

Operations

1. All etcd modules should be released in the same versions, e.g.
  `go.etcd.io/etcd/client/v3@v3.5.10` must depend on `go.etcd.io/etcd/api/v3@v3.5.10`.

  The consistent updating of versions can be performed using:
  ```shell script
  % DRY_RUN=false TARGET_VERSION="v3.5.10" ./scripts/release_mod.sh update_versions
  ```
2. The released modules should be tagged according to https://golang.org/ref/mod#vcs-version rules,
  i.e. each module should get its own tag.
  The tagging can be performed using:

```shell script
% DRY_RUN=false REMOTE_REPO="origin" ./scripts/release_mod.sh push_mod_tags
```

3. All etcd modules should depend on the same versions of underlying dependencies.
   This can be verified using:
   ```shell script
   % PASSES="dep" ./test.sh
   ```

4. The go.mod files must not contain dependencies not being used and must
   conform to `go mod tidy` format.
   This is being verified by:
   ```
   % PASSES="mod_tidy" ./test.sh
   ```

5. To trigger actions across all modules (e.g. auto-format all files), please
   use/expand the following script:
   ```shell script
   % ./scripts/fix.sh
   ```

###
 Future

As a North Star, we would like to evaluate etcd modules towards the following model:

![modules graph](modules-future.svg)

This assumes:
- Splitting etcdmigrate/etcdadm out of etcdctl binary.
  Thanks to this etcdctl would become clearly a command-line wrapper
  around network client API,
  while etcdmigrate/etcdadm would support direct physical operations on the
  etcd storage files.
- Splitting etcd-proxy out of ./etcd binary, as it contains more experimental code
  so carries additional risk & dependencies.
- Deprecation of support for v2 protocol.

Reporting bugs

If any part of the etcd project has bugs or documentation mistakes, please let us know by [opening an issue][etcd-issue]. We treat bugs and mistakes very seriously and believe no issue is too small. Before creating a bug report, please check that an issue reporting the same problem does not already exist.

To make the bug report accurate and easy to understand, please try to create bug reports that are:

- Specific. Include as many details as possible: which version, what environment, what configuration, etc. If the bug

is related to running the etcd server, please attach the etcd log (the starting log with the etcd configuration is especially important).

- Reproducible. Include the steps to reproduce the problem. We understand some issues might be hard to reproduce, please include the steps that might lead to the problem. If possible, please attach the affected etcd data dir and stack trace to the bug report.

- Isolated. Please try to isolate and reproduce the bug with
 minimum dependencies. It would significantly slow down the speed to fix a bug if too many dependencies are involved in a bug report. Debugging external systems that rely on etcd is out of scope, but we are happy to provide guidance in the right direction or help with using etcd itself.

- Unique. Do not duplicate existing bug reports.

- Scoped. One bug per report. Do not follow up with another bug inside one report.

It may be worthwhile to read [Elika Etemads article on filing good bug reports][filing-good-bugs] before creating a bug report.

We might ask for further information to locate a bug. A duplicated bug report will be closed.

Frequently asked questions

How to get a stack trace

```bash
$ kill -QUIT $PID
```

How to get the etcd version

```bash
$ etcd --version
```

How to get etcd configuration and log when it runs as systemd service etcd2.service

```bash
$ sudo systemctl cat etcd2
$ sudo journalctl -u etcd2
```

Due to an upstream systemd bug, journald
 may miss the last few log lines when its processes exit. If journalctl says etcd stopped without a fatal or panic message, try `sudo journalctl -f -t etcd2` to get the full log.

[etcd-issue]: https://github.com/etcd-io/etcd/issues/new
[filing-good-bugs]: http://fantasai.inkedblade.net/style/talks/filing-good-bugs/

Community membership

This doc outlines the various responsibilities of contributor roles in etcd.

Role	Responsibilities	Requirements	Defined by
Member	Active contributor in the community	Sponsored by 2 reviewers and multiple contributions	etcd GitHub org member
Reviewer	Review contributions from other members	History of review and authorship	[OWNERS] file reviewer entry
Maintainer	Set direction and priorities for the project	Demonstrated responsibility and excellent technical judgement	[OWNERS] file approver entry

New contributors

New contributors should be welcomed to the community by existing members, helped with PR workflow, and directed to relevant documentation and communication channels.

Established community members

Established community members are expected to demonstrate their adherence to the principles in this document, familiarity with project organization, roles, policies, procedures, conventions, etc., and technical and/or writing ability. Role-specific expectations, responsibilities, and requirements are enumerated below.

Member

Members are continuously active contributors to the community. They can have issues and PRs assigned to them. Members are expected to remain active contributors to the community.

Defined by: Member of the etcd GitHub organization.

Requirements

- Enabled [two-factor authentication] on their GitHub account
- Have made multiple contributions to the project or community. Contribution may include, but is not limited to:
  - Authoring or reviewing PRs on GitHub. At least one PR must be **merged**.
  - Filing or commenting on issues on GitHub
  - Contributing to community discussions (e.g. meetings, Slack, email discussion forums, Stack Overflow)
- Subscribed to [etcd-dev@googlegroups.com](https://groups.google.com/g/etcd-dev)

- Have read the [contributor guide]
- Sponsored by two active maintainers or reviewers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Open a [membership nomination] issue against the `kubernetes/org` repo
  - Ensure your sponsors are @mentioned on the issue
  - Make sure that the list of contributions included is representative of your work on the project.
- Members can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Responsive to issues and PRs assigned to them
- Granted "triage access" to etcd project
- Active owner of code they have contributed (unless ownership is explicitly transferred)
  - Code is well-tested
  - Tests consistently pass
  - Addresses bugs or issues discovered after code is accepted

Note: Members who frequently contribute code are expected to proactively perform code reviews and work towards becoming a *reviewer*.

Reviewers

Reviewers are contributors who have demonstrated greater skill in reviewing the code from other contributors. They are knowledgeable about both the codebase and software engineering principles. Their LGTM counts towards merging a code change into the project. A reviewer is generally on the ladder towards maintainership.

Defined by: *reviewers* entry in the [OWNERS] file.

Requirements

- member for at least 3 months.
- Primary reviewer for at least 5 PRs to the codebase.
- Reviewed or contributed at least 20 substantial PRs to the codebase.
- Knowledgeable about the codebase.
- Sponsored by two active maintainers.
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
  - With no objections from other maintainers
- Reviewers can be removed by a supermajority of the maintainers or can resign by notifying the maintainers.

Responsibilities and privileges

- Code reviewer status may be a precondition to accepting large code contributions

- Responsible for project quality control via code reviews
  - Focus on code quality and correctness, including testing and factoring
  - May also review for more holistic issues, but not a requirement
- Expected to be responsive to review requests
- Assigned PRs to review related to area of expertise
- Assigned test bugs related to area of expertise
- Granted "triage access" to etcd project

Maintainers

Maintainers are first and foremost contributors who have shown they
are committed to the long-term success of a project. Maintainership is about building
trust with the current maintainers and being a person that they can
depend on to make decisions in the best interest of the project in a consistent
manner.

Defined by: *approvers* entry in the [OWNERS] file.

Requirements

- Deep understanding of the technical goals and direction of the project
- Deep understanding of the technical domain of the project
- Sustained contributions to design and direction by doing all of:
  - Authoring and reviewing proposals
  - Initiating, contributing, and resolving discussions (emails, GitHub issues, meetings)
  - Identifying subtle or complex issues in the designs and implementation of PRs
- Directly contributed to the project through implementation and/or review
- Sponsored by two active maintainers and elected by supermajority
  - Sponsors must be from multiple member companies to demonstrate integration across the community.
- To become a maintainer send an email with your candidacy to etcd-maintainers-private@googlegroups.com
  - Ensure your sponsors are @mentioned in the email
  - Include a list of contributions representative of your work on the project.
  -
Existing maintainers vote will privately and respond to the email with either acceptance or feedback for suggested improvement.
- With your membership approved you are expected to:
 - Open a PR and add an entry to the [OWNERS] file
 - Subscribe to etcd-maintainers@googlegroups.com and etcd-maintainers-private@googlegroups.com
 - Request to join [etcd-maintainer teams of etcd organization of GitHub](https://github.com/orgs/etcd-io/teams/maintainers-etcd)
 - Request to join the private slack channel for etcd maintainers on [kubernetes slack](http://slack.kubernetes.io/)
 - Request access to etcd-development GCP project where we publish releases
 - Request access to passwords shared between maintainers

Responsibilities and privileges

- Make and approve technical design decisions
- Set technical direction and priorities

- Define milestones and releases
- Mentor and guide reviewers, and contributors to the project.
- Participate when called upon in the [security disclosure and release process]
- Ensure the continued health of the project
  - Adequate test coverage to confidently release
  - Tests are passing reliably (i.e. not flaky) and are fixed when they fail
- Ensure a healthy process for discussion and decision-making is in place.
- Work with other maintainers to maintain the project's overall health and success holistically

Retiring

Life priorities, interests, and passions can change. Maintainers can retire and move to [emeritus maintainers]. If a maintainer needs to step down, they should inform other maintainers and, if possible, help find someone to pick up the related work. At the very least, ensure the related work can be continued. Afterward, they can remove themselves from the list of existing maintainers.

If a maintainer has not been performing their duties for 12 months, they can be removed by other maintainers. In that case, the inactive maintainer will be first notified via an email. If the situation doesn't improve, they will be removed.
If an emeritus maintainer wants to regain an active role, they can do so by renewing their contributions. Active maintainers should welcome such a move. Retiring other maintainers or regaining the status should require the approval of at least two active maintainers.

Acknowledgements

Contributor roles and responsibilities were written based on [Kubernetes community membership]

[OWNERS]: /OWNERS
[contributor guide]: /CONTRIBUTING.md
[membership nomination]: https://github.com/kubernetes/org/issues/new?assignees=&labels=area%2Fgithub-membership&projects=&template=membership.yml&title=REQUEST%3A+New+membership+for+%3Cyour-GH-handle%3E
[Kubernetes community membership]: https://github.com/kubernetes/community/blob/master/community-membership.md
[emeritus maintainers]: /README.md#etcd-emeritus-maintainers
[security disclosure and release process]: /security/README.md
[two-factor authentication]: https://docs.github.com/en/authentication/securing-your-account-with-two-factor-authentication-2fa/about-two-factor-authentication

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Logging Conventions

etcd uses the [zap][zap] library for logging application output categorized into *levels*. A log message's level is determined according to these conventions:

* Debug: Everything is still fine, but even common operations may be logged, and less helpful but more quantity of notices. Usually not used in production.
 * Examples:
  * Send a normal message to a remote peer
  * Write a log entry to disk

* Info: Normal, working log information, everything is fine, but helpful notices for auditing or common operations. Should rather not be logged more frequently than once per a few seconds in a normal server's operation.
 * Examples:
  * Startup configuration
  * Start to do a snapshot

* Warning: (Hopefully) Temporary conditions that may cause errors, but may work fine. A replica disappearing (that may reconnect) is a warning.
 * Examples:
  * Failure to send a raft message to a remote peer
  * Failure to receive heartbeat message within the configured election
 timeout

* Error: Data has been lost, a request has failed for a bad reason, or a required resource has been lost.
 * Examples:
  * Failure to allocate disk space for WAL

* Panic: Unrecoverable or unexpected error situation that requires stopping execution.
 * Examples:
  * Failure to create the database

* Fatal: Unrecoverable or unexpected error situation that requires immediate exit. Mostly used in the test.
 * Examples:
  * Failure to find the data directory
  * Failure to run a test function

[zap]: https://github.com/uber-go/zap
Dependency management

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Main branch

The dependabot is enabled & [configured](https://github.com/etcd-io/etcd/blob/main/.github/dependabot.yml) to manage dependencies for etcd `main` branch. But dependabot doesn't work well for multi-module repository like `etcd`,
see [dependabot-core/issues/6678](https://github.com/dependabot/dependabot-core/issues/6678).
Usually, human intervention is required
 each time when dependabot automatically opens some PRs to bump dependencies.
Please see the guidance below.

Dependencies used in workflows

The PRs that automatically bump dependencies (see examples below) used in workflows are fine and can be approved & merged directly as long as all checks are successful.

- [build(deps): bump github/codeql-action from 2.2.11 to 2.2.12](https://github.com/etcd-io/etcd/pull/15736)
- [build(deps): bump actions/checkout from 3.5.0 to 3.5.2](https://github.com/etcd-io/etcd/pull/15735)
- [build(deps): bump ossf/scorecard-action from 2.1.2 to 2.1.3](https://github.com/etcd-io/etcd/pull/15607)

Bumping order

When multiple etcd modules depend on the same package, please bump the package version for all the modules in the correct order. The rule is simple:
if module A depends on module B, then bump the dependency for module B before module A. If the two modules do not depend on each other, then
it doesn't matter to bump which module first. For
 example, multiple modules depend on `github.com/spf13/cobra`, so we need to bump the dependency
in the following order,

- go.etcd.io/etcd/pkg/v3

- go.etcd.io/etcd/server/v3
- go.etcd.io/etcd/etcdctl/v3
- go.etcd.io/etcd/etcdutl/v3
- go.etcd.io/etcd/tests/v3
- go.etcd.io/etcd/v3
- go.etcd.io/etcd/tools/v3

For more details about etcd Golang modules, please check <https://etcd.io/docs/next/dev-internal/modules>

Note the module `go.etcd.io/etcd/tools/v3` doesn't depend on any other modules, nor by any other modules, so it doesn't matter when to bump dependencies for it.

Steps to bump a dependency

Use the `github.com/spf13/cobra` as an example, follow the steps below to bump it from 1.6.1 to 1.7.0 for module `go.etcd.io/etcd/etcdctl/v3`,

```bash
cd ${ETCD_ROOT_DIR}/etcdctl
go get github.com/spf13/cobra@v1.7.0
go mod tidy
cd ..
./scripts/fix.sh
```

Execute the same steps for all other modules. When you finish bumping the dependency for all modules, then commit the change,

```bash
git
 add .
git commit --signoff -m "dependency: bump github.com/spf13/cobra from 1.6.1 to 1.7.0"
```

Please close the related PRs which were automatically opened by dependabot.

When you bump multiple dependencies in one PR, it's recommended to create a separate commit for each dependency. But it isn't a must; for example,
you can get all dependencies bumping for the module `go.etcd.io/etcd/tools/v3` included in one commit.

Troubleshooting

In an event of bumping the version of protoc, protoc plugins or grpc-gateway, it might change `*.proto` file which can result in the following error:

```bash
[0;31mFAIL: 'genproto' FAILED at Wed Jul 31 07:09:08 UTC 2024
make: *** [Makefile:134: verify-genproto] Error 255
```

To fix the above error, run the following script from the root of etcd repository:

```bash
./scripts/genproto.sh
```

Indirect dependencies

Usually, we don't bump a dependency if all modules just indirectly depend on it, such as `github.com/go-logr/logr`.

If
 an indirect dependency (e.g. `D1`) causes any CVE or bugs that affect etcd, usually the module (e.g. `M1`, not part of etcd, but used by etcd)
which depends on it should bump the dependency (`D1`), and then etcd just needs to bump `M1`. However, if the module (`M1`) somehow doesn't
bump the problematic dependency, then etcd can still bump it (`D1`) directly following the same steps above. But as a long-term solution, etcd should
try to remove the dependency on such module (`M1`) that lack maintenance.

For mixed cases, in which some modules directly while others indirectly depend on a dependency, we have multiple options,

- Bump the dependency for all modules, no matter it's direct or indirect dependency.
- Bump the dependency only for modules that directly depend on it.

We should try to follow the first way, and temporarily fall back to the second one if we run into any issue on the first way. Eventually we
should fix the issue and ensure all modules depend on the same version of the
 dependency.

Known incompatible dependency updates

arduino/setup-protoc

Please refer to [build(deps): bump arduino/setup-protoc from 1.3.0 to 2.0.0](https://github.com/etcd-io/etcd/pull/16016)

Rotation worksheet

The dependabot scheduling interval is weekly; it means dependabot will automatically raise a bunch of PRs per week.
Usually, human intervention is required each time. We have a [rotation worksheet](https://docs.google.com/spreadsheets/d/1jodHIO7Dk2VWTs1IRnfMFaRktS9IH8XRyifOnPdSY8I/edit#gid=1394774387),
and everyone is welcome to participate; you just need to register your name in the worksheet.

Stable branches

Usually, we don't proactively bump dependencies for stable releases unless there are any CVEs or bugs that affect etcd.

If we have to do it, then follow the same guidance above. Note that there is no `./scripts/fix.sh` in release-3.4, so no need to
execute it for 3.4.

Golang versions

The etcd project aims to maintain a development branch that
is on the latest [Go version](https://go.dev/dl), ideally, this will align with the Go version in use for Kubernetes project development. For an example of how to update etcd to a new minor release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16393> and the linked pull requests.

Suggested steps for performing a minor version upgrade for the etcd development branch:

1. Carefully review new Go version release notes and potentially related blog posts for any deprecations, performance impacts, or other considerations.
2. Create a GitHub issue to signal intent to upgrade and invite discussion, for example, <https://github.com/etcd-io/etcd/issues/16393>.
3. Complete the upgrade locally in your development environment by editing `.go-version` and running `make fix`.
4. Run performance benchmarks locally to compare before and after.
5. Raise a pull request for the changes, for example, <https://github.com/etcd-io/etcd/pull/16394>.

Stable etcd release branches will be maintained
to stay on the latest patch release of a supported Go version. Upgrading minor versions will be completed before the minor version in use currently is no longer supported. Refer to the [Go release
policy](https://go.dev/doc/devel/release).

For an example of how to update etcd to a new patch release of Go refer to issue <https://github.com/etcd-io/etcd/issues/16343> and the linked pull requests.

References:

- <https://github.com/kubernetes/sig-release/blob/master/release-engineering/handbooks/go.md>

Core dependencies mappings

[bbolt](https://github.com/etcd-io/bbolt) and [raft](https://github.com/etcd-io/raft) are two core dependencies of etcd.

Both etcd 3.4.x and 3.5.x depend on bbolt 1.3.x, and etcd 3.6.x (`main` branch) depends on bbolt 1.4.x.

raft is included in the etcd repository for release-3.4 and release-3.5 branches, so etcd 3.4.x and 3.5.x do not depend on any
external raft module. We moved raft into [a separate repository](https://github.com/etcd-io/raft) starting

from 3.6 (`main` branch), and the first raft
release will be v3.6.0, so etcd 3.6.x will depend on raft 3.6.x.

Please see the table below:

etcd versions	bbolt versions	raft versions
3.4.x	v1.3.x	N/A
3.5.x	v1.3.x	N/A
3.6.x	v1.4.x	v3.6.x

1.5038 perl 5.34.0-3ubuntu1.5

1.5038.1 Available under license :

[name]
Uppercase license text

[input]
=head1 Uppercase License

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Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify
it under the terms of the GNU General Public License as published by
the Free Software Foundation; either version 1, or (at your option)
any later version.

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GNU General Public License for more details.

You should have received a copy of the GNU General Public License
along with this program; if not, write to the Free Software
Foundation, Inc., 51 Franklin
Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License. Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims
all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!

--- The Artistic License 1.0 ---

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The Artistic License

Preamble

The intent of this document is to state the conditions under which a Package may be copied, such that the Copyright Holder maintains some semblance of artistic control over the development of the package, while giving the users of the package the right to use and distribute the Package in a more-or-less customary fashion, plus the right to make reasonable modifications.

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b) use the modified Package only within your corporation or organization.

c)
rename any non-standard executables so the names do not conflict with standard executables, which must also be provided, and provide a separate manual page for each non-standard executable that clearly documents how it differs from the Standard Version.

d) make other distribution arrangements with the Copyright Holder.

4. You may distribute the programs of this Package in object code or executable form, provided that you do at least ONE of the following:

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Version 1, February 1989

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d) You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

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3. You may copy and distribute the Program (or a portion or derivative of it, under Paragraph 2) in object code or executable form under the terms of Paragraphs 1 and 2 above provided that you also do one of the following:

a) accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Paragraphs 1 and 2 above; or,

b) accompany it with a written offer, valid for at least three years, to give any third party free (except for a nominal charge for the cost of distribution) a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Paragraphs 1 and 2 above; or,

c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

Source code for a work means the preferred form of the work for making modifications to it. For an executable file, complete source code means

all the source code for all modules it contains; but, as a special exception, it need not include source code for modules which are standard libraries that accompany the operating system on which the executable file runs, or for standard header files or definitions files that accompany that operating system.

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Appendix: How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to humanity, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version.

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston MA 02110-1301 USA

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
appropriate parts of the General Public License.
Of course, the
commands you use may be called something other than `show w' and `show
c'; they could even be mouse-clicks or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

```
If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
```

```
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
     or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
     or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

1.5039 perl-base 5.38.2-3.2ubuntu0.2

1.5039.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: startsh.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:25:31  ram
?RCS: patch61: avoid needless chatter since this is now done very early
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:startsh: sh sharpbang eunicefix
?MAKE: -pick add $@ %<
?S:startsh:
?S: This variable contains the string to put on the front of a shell
```

```
?S: script to make sure (hopefully) that it runs with sh and not some
?S: other
 shell.
?S:.
?F:!sharp
: figure out how to guarantee sh startup
?X: Avoid needless chatter since this is now done very early.
?X: echo " "
?X: echo "Checking out how to guarantee sh startup..." >&2
case "$startsh" in
") startsh=${sharpbang}${sh} ;;
*)
?X: echo "Let's see if '$startsh' works..." ;;
esac
cat >sharp <<EOSS
$startsh
set abc
test "$?abc" != 1
EOSS

chmod +x sharp
$eunicefix sharp
if ./sharp; then
 : echo "Yup, it does."
else
 echo "Hmm... '$startsh' does not guarantee sh startup..."
 echo "You may have to fix up the shell scripts to make sure $sh runs them."
fi
rm -f sharp
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/startsh.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
```

```
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/AAAAA.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_passwd.U
No license file was found, but licenses were detected in source scan.

```
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?D:sitehtml3dir=''
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp=''
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir=''
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar

Found in path(s):
```

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

```
/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
```

```
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*)
 xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$grep
;;
esac
@if less
case "$less" in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
echo "Substituting less -R for less."
less="$less -R"
_less=$less
fi
;;
esac
```

```
@end
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely
 GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
```

```
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible.  In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c=";;
esac
cat
 <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
```

maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10 1997/02/28 15:56:48 ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9 1995/07/25 14:11:56 ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8 1995/05/12 12:20:47 ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7 1994/10/29 16:23:40 ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6 1994/08/29 16:28:10 ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5 1994/06/20 07:03:24 ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4 1994/05/06 15:06:33 ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:

```
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
 get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
```

```
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
```

```
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
```

```
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...
```

```
EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
```

```
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
```

```
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo
 "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
```

```
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if  bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo "Ok." >&4
   else
    echo
 "That didn't work either.  Giving up." >&4
    exit 1
   fi
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ...">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
```

```
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable '"$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\'"\'"/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
```

```
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: maildir.U,v $
?RCS: Revision 3.0.1.1  1993/12/15  08:21:56  ram
?RCS: patch15: now also looks under /var/mail for BSD/386
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:maildir maildirexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:maildir:
?S: This variable contains the name of the directory in which mail is
?S: spooled. Programs using this variable must be prepared to deal with
?S: ~name
 substitutions.
?S:.
?S:maildirexp:
?S: This is the same as the maildir variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
: determine where mail is spooled
case "$maildir" in
") dflt=`./loc . /usr/spool/mail /usr/spool/mail /usr/mail /var/mail`;;
*) dflt="$maildir";;
esac
echo " "
fn=d~
rp='Where is yet-to-be-read mail spooled?'
. ./getfile
maildir="$ans"
maildirexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/maildir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
```

```
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.
```

```
You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Chk_MANI.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
```

```
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
```

```
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
```

```
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
```

```
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/package.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: rcs_branch.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:40  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:rcs_branch: Myread contains Loc
?MAKE: -pick add $@ %<
?S:rcs_branch:
?S: This variable will hold "true" if rcs can take the -b<revision>
?S: option, which can make Life Easier on those folks who like to run
?S: rcsdiff manually.
?S:.
?T:xxx
: Tra la la la la
echo " "
echo "Checking to see if RCS understands the -b switch..." >&4
xxx=`./loc
 rcs " $pth`
case "$xxx" in
")
 rcs_branch=false
 echo "Oh.  You don't seem to have RCS here."
 ;;
*)
 rcs > rcsbranch.out 2>&1
 if $contains 'b\[rev\]' rcsbranch.out  >/dev/null 2>&1 ; then
  rcs_branch=true
  echo "Nice!  Your RCS is spiffy!"
 else
  rcs_branch=false
 echo "Well, at least you have RCS.  You know, a newer version is available."
 fi
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/rcs_branch.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir="
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
") vendorman1dir="
 vendorman1direxp="
 ;;
*) : determine where vendor-supplied manual pages go.
```

```
 case "$vendorman1dir" in
 ") dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
```

```
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
```

```
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
 dflt="
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick="
 case "$ans" in
 ") ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac
```

```
: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
```

```
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
fi
if $test -f UU/config.msg; then
   echo "Hmm.  I also noted the following information while running:"
   echo " "
   $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
```

```
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
```

```
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm=''
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
```

```
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
   recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
```

```
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

?RCS: You may redistribute only under the terms of the Artistic License,

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_vprintf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/gidsign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_socket.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_netinettcp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mmap.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dosuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nblock_io.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_getservprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dosuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_voidsig.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ccflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_castneg.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endpent.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/mallocsrc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_flexfnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/stdchar.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Signal.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_eofpipe.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sanemcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/intsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_gai_strerror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/orderlib.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorscript.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_static_inline.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lseektype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_drand48proto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Cppsym.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_mbrtowc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/randfunc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Guess.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_grp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_access.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_isascii.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/pidtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/nullified/fpu.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sbrkproto.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/selecttype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gnulibc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/gccvers.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/modetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/voidflags.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/ptrsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_closedir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wifstat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Devel.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sigprocmask.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/archname.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_htonl.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_termio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_bitfield.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_socket.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d__fwalk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_safemcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_shmat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_wctype.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_safemcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_neterrno.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setnent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_safebcpy.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/pager.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/perlpath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_csh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_ndbm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitelib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sresuproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/lseektype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/pidtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_open3.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/src.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dlopen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_grp.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_scannl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_db.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strctcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strftime.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_builtin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/startperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitearch.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ptrsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getprpwnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_gethent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dir_dd_fd.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memchr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sizetype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lc_monetary_2008.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getspnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Oldconfig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_eofpipe.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_getnetprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_varhdr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dbminitproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/floatsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/sizesize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/models.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Cross.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/fpu.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sockopt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethname.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/fpostype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/uidtype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidsign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_execinfo.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_dirent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/fpossize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/selecttype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_malloc.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_syscallproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorbin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sanemcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getespwnam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/st_dev_def.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_csh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/fflushall.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/selectminbits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_strerror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_madvise.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setsent.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_endhent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_getprotoprotos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/randbits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libpth.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_malloc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_wcrtomb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_telldirproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_lchown.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/prototype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_dirent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/byteorder.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/cpp_stuff.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_sethent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/nblock_io.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Cppsym.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_volatile.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_int64_t.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_scannl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Config_sh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_voidsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/sbrksmart.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/acl/i_sysaccess.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/d_gethostprotos.U
*

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sbrksmart.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
```

```
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
 set $yyy; shift; shift; yyy=$@;
done'
```

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Inhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

?X:
?X: Useless unit dropped. Use randfunc instead.
?X:
?LINT:empty

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mansrc.U,v $
?RCS: Revision 3.0.1.9 1997/02/28 16:12:03 ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.8 1995/09/25 09:16:58 ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.7 1995/02/15 14:15:31 ram
?RCS: patch51: was mistakenly duplicating /usr/local/man/man1 (ADO)
?RCS: patch51: added /opt/man/man1 to the lookpath (ADO)
?RCS:
?RCS: Revision
 3.0.1.6 1995/01/30 14:39:34 ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.5 1995/01/11 15:32:25 ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.4 1994/08/29 16:30:38 ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.3 1994/05/06 15:11:10 ram
?RCS: patch23: added lint hint, assuring that nroff is used
?RCS:
?RCS: Revision 3.0.1.2 1994/01/24 14:14:39 ram
?RCS: patch16: now uses _nroff in case user asked for portability
?RCS:
?RCS: Revision 3.0.1.1 1993/09/13 16:09:31 ram
?RCS: patch10: allows for L1 man page extension (WAD)

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:mansrc mansrcexp manext installmansrc: afs cat nroff Loc Oldconfig \
 sysman spackage test Getfile Prefixit prefixexp Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?S:mansrc:
?S: This variable
 contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:mansrcexp:
?S: This variable is the same as the mansrc variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installmansrc:
?S: This variable is really the same as mansrcexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:manext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See mansrc.
?S:.
?T:lookpath
: determine where manual pages go
set mansrc mansrc none
eval $prefixit
$cat <<EOM

$spackage has manual
 pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$mansrc" in
 ") mansrc="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$mansrc" in
```

```
")
 lookpath="$prefixexp/share/man/man1 $prefixexp/man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/man1 /opt/man/man1 /usr/man/manl"
 lookpath="$lookpath /usr/share/man/man1 /usr/local/share/man/man1"
 lookpath="$lookpath /usr/man/local/man1 /usr/man/l_man/man1"
 lookpath="$lookpath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 lookpath="$lookpath /usr/man/man.L"
 mansrc=`./loc . $prefixexp/man/man1 $lookpath`
 if $test -d "$mansrc"; then
  dflt="$mansrc"
 else
  dflt="$sysman"
 fi
 set dflt
 eval $prefixup
 ;;
' ') dflt=none;;
*)  dflt="$mansrc"
 ;;
esac
echo " "
fn=dn~
rp='Where do the manual pages (source) go?'
. ./getfile
if test
 "X$mansrcexp" != "X$ansexp"; then
 installmansrc="
fi
mansrc="$ans"
mansrcexp="$ansexp"
case "$mansrc" in
") mansrc=' '
 installmansrc=";;
esac
if $afs && $test "$mansrc"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installmansrc" in
 ") dflt=`echo $mansrcexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmansrc";;
 esac
 fn=de~
```

```
 rp='Where will man pages be installed?'
 . ./getfile
 installmansrc="$ans"
else
 installmansrc="$mansrcexp"
fi

case "$mansrc" in
' ') manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mansrc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel: package baserev test rsrc
?MAKE: -pick add $@ %<
?T:Revision
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S:.
: get the patchlevel
```

```
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r
 $rsrc/patchlevel.h;then
 patchlevel=`awk \
  '/^#[  ]*define[  ][  ]*PATCHLEVEL/ {print $3}' \
  < $rsrc/patchlevel.h`
else
 patchlevel=0
fi
echo "(You have $package $baserev PL$patchlevel.)"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/patchlevel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
```

```
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable '"$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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```

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Loc_ar.U
No license file was found, but licenses were detected in source scan.

```
# $Id: makedir.sh,v 3.0.1.1 1994/01/24 14:00:08 ram Exp ram $
#
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#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedir.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:08  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:38  ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/makedir.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
```

```
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: rename.C,v 3.0.1.1 1994/01/24 13:58:42 ram Exp ram $
*
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*
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*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: rename.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:42  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/rename.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
```

```
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
```

```
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans=";
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans=";;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
```

```
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
   esac
   $myecho
   ans=!
   ;;
  esac;;
 *)
  case "\$aok" in
  y)
   echo "*** Substitution done -- please confirm."
   xxxm="\$ans"
   ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
   xxxm="\$ans"
   ans=!
   ;;
  *)
   echo "*** Error -- try again."
   ans=!
   ;;
  esac
  $myecho
  ;;
 esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
```

```
 ")
  ans=!
  $myecho
  ;;
 esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
```

```
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
?S: often a local directory such as /usr/local/lib. Programs using this
```

```
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
```

```
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29  15:56:20  ram
?RCS: patch36: added ?F:
 line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception to this rule (Finish.U) where we
?X: set
 nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho counter
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
```

```
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if test \`echo \"\$rp [\$xxxm]
  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
counter=42
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans=";
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans=";;
  esac;;
 esac;;
```

```
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER. Variables must be evaluated
 now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired behaviour compatible with
 our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
```

```
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
   esac
   $myecho
   ans=!
   ;;
  esac;;
 *)
  case "\$aok" in
  y)
   echo "*** Substitution done -- please confirm."
   xxxm="\$ans"
   ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
   xxxm="\$ans"
   ans=!
   ;;
  *)
   echo "*** Error -- try again."
   ans=!
   ;;
  esac
  $myecho
  ;;
 esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
  ;;
 esac
 counter=\`echo \$counter | awk '{ print --\$0 }'\`
 if [ \$counter = 0 ]; then
  echo >&4
  echo >&4 Too many attempts asking the same question.  Giving up.
  exit 1
 fi
done
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
```

```
?X:
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
```

```
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
") case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
```

```
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex="
```

```
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libflex.U
No license file was found, but licenses were detected in source scan.

```
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_builtin_overflow.U
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
```

```
# $Log: errnolist.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:00  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:36  ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.SH
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: getopt.C,v 3.0.1.1 1994/01/24 13:58:40 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
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*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* Original Author: unknown, got this off net.sources
*
* $Log: getopt.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:40  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/getopt.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
```

```
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
```

```
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '"'"'
 cat <<EOC | sed -e "s/'/'"'"'"'"'/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
```

```
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread="
reuseval=false
```

```
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
override=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
```

```
-K) shift; knowitall=true;;
-O) shift; override=true;;
-S) shift; silent=true; extractsh=true;;
-D)
 shift
 case "$1" in
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/\'\"\'\"'/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
    shift
    xxx=''
    yyy="$1"
    zzz=''
    uuu=undef
    case "$yyy" in
          *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
               case "$zzz" in
               *:*) zzz='' ;;
               *)   xxx=append
                    zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'`
                    yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
               esac
               ;;
          esac
          case "$xxx" in
          '')  case "$yyy" in
               *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
```

```
                yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
            *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
            esac
            ;;
        esac
    case "$xxx" in
    append)
  echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
    clear)
  echo "$yyy=""   >> posthint.sh ;;
    define)
        case "$zzz" in
  ") zzz=define ;;
  esac
  echo "$yyy='$zzz'"  >> posthint.sh ;;
    eval)
  echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
    prepend)
  echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)
        case "$zzz" in
  ")
 zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
        *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
            [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
```

```
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
      -D symbol         symbol gets the value 'define'
      -D symbol=value
   symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
      -U symbol    symbol gets the value 'undef'
      -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
      -A clear:symbol  define symbol to be ''
  -A define:symbol  define symbol to be 'define'
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
  -A undef:symbol=  define symbol to be ''
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
```

```
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
```

```
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
```

```
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
```

```
  if $contains $tlook $tf >/dev/null 2>&1; then
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
   $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
   $rm_try;
  fi;
 else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
 fi;
 ;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;
 ;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: mailer.U,v $
?RCS: Revision 3.0.1.3  1995/01/11  15:32:11  ram
?RCS: patch45: can now use Loc variables since path stripping is deferred
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:10:04  ram
?RCS: patch23: ensure full path value is used for rmail also
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:14:18  ram
```

```
?RCS: patch16: now use _sendmail vars and friends for portability issues
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:10  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:mailer: test cat rmail mail smail sendmail Getfile Oldconfig
?MAKE: -pick add $@ %<
?S:mailer:
?S: This variable contains the full pathname of a reasonable mailer.
?S: By reasonable, we mean some program which can understand internet
?S: addresses or at least forward them to some internet router. This
?S: mailer should be invoked as "mailer [options] recipients <mail".
?S:.
: determine the name of a reasonable mailer
case "$mailer" in
")
 if $test -f "$sendmail"; then
  dflt="$sendmail"
 elif $test -f "$smail"; then
  dflt="$smail"
 elif $test -f "$rmail"; then
  dflt="$rmail"
 elif $test -f /bin/mail; then
  dflt=/bin/mail
 else
  dflt=$mail
 fi
 ;;
*)  dflt="$mailer";;
esac
$cat <<EOM

I need the full pathname of the program used to deliver mail on your system.
A typical answer would be /usr/lib/sendmail or /bin/rmail, but you may choose
any other program, as long as it can be fed from standard input and will
honour any user-supplied headers.

EOM
fn=f
rp='Mail
 transport agent to be used?'
. ./getfile
mailer="$ans"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mailer.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
```

```
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
   awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
    sort -u | while true
   do
    read dir
    test -z "$dir" && break
    ./UU/mkdirp $dir 2>/dev/null
    if test -d $dir; then
     : ok
    else
     echo "Failed to create '$dir'.  Aborting." >&4
     exit 1
    fi
   done
   echo "(Now creating the symlinks...)" >&4
   awk '{print $1}' $src/MANIFEST | while true; do
    read filename
    test -z "$filename" && break
    if test -f $filename; then
     if $issymlink $filename; then
      rm -f $filename
     fi
    fi
    if test -f $filename; then
     echo "$filename already exists, not symlinking."
    else
?X: Note that the following works because "$pkgsrc" is absolute
     ln
 -s $pkgsrc/$filename $filename
    fi
   done
?X: Check that everything was correctly copied
```

```
   echo "(Checking current directory...)" >&4
   cd UU
   awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
    (split -l 50 2>/dev/null || split -50)
   rm -f missing
   tmppwd=`pwd`
   for filelist in x??; do
    (cd ..; ls `cat "$tmppwd/$filelist"` \
     >/dev/null 2>>"$tmppwd/missing")
   done
   if test -s missing; then
    echo "Failed duplication of source tree.  Aborting." >&4
    exit 1
   fi
   ;;
  *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
   ;;
  esac
  ;;
 esac
 ;;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Mksymlinks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
```

```
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
```

```
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.
```

```
EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/so.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
 $cat <<
```

```
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/dlext.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
```

```
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir=''
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
'') vendorman3dir=''
 vendorman3direxp=''
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 '') dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorman3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
```

```
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
") dflt=$prefix ;;
```

```
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix=''
case "$siteprefix" in
'') ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
```

```
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
```

```
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript=''
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitescriptexp=''
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript=''
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
```

```
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
```

```
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
```

```
 _exe=""
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman3dir=''
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp=''
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir=''
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
```

```
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteman3dir.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man
complain. This patch silences those warnings. As new units are
added and Configure is regenerated, this patch may need more and more
'fuzz' to be applied. It should be freshly regenerated every once
in a while. See also mkgloss.pl

ln-all.pl

Re-generate the all/ folder

mkglossary
A script
to regenerate Porting/Glossary. You have to manually
edit the top of the script to point the location of your metaconfig
units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts
the list of symbols, and applies the patch mentioned in Glossary.patch.
When called on its own, redirect the output to a temporary file, and
compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H.
It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following
directories.

a_dvisory/
These are units that have to go first in the generated config_h.SH.
A word of explanation: Configure and config_h.SH are generated from 'Units'
(the *.U files). Files indicate dependencies (using make(1)), and
Configure is built to follow those dependencies.
However, config_h.SH
is simply built by putting all the units in alphabetical order and
extracting the relevant lines. (This could be fixed, I suppose, but
it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need
to be early in config_h.SH. (Most units are self-contained
and ought to be able to go anywhere. However, some things, like
byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules
that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the

new Compile.U unit. (The ccflags.U unit is perl-specific since it
mentions -DDEBUGGING and
-DPOSIX_SOURCE, but that's the only place
it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution. They have already been applied
to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under
either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and
related issues.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

nullified/
These are null units that replace units in the standard
distribution. Typically they are there because some part of the
perl source accidentally uses a symbol that metaconfig thinks means we
want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units associated with the metaconfig program of Raphael Manfredi's "dist" distribution. These units list Raphael Manfredi as the Copyright holder. dist is distributed under a modified version of the Perl Artistic License. Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided that you explicitly state where you got them from, in the source code (and, left to your courtesy, in the documentation), duplicating

all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/README
No license file was found, but licenses were detected in source scan.

?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:23:06 ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1 1993/08/24 12:24:43 ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used

```
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig grep \
 d_gnulibc nm egrep rsrc osname Guess
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction is wanted
 or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're using GNU libc -- skimo
case "$usenm"
 in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "$nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
```

```
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ")
  if ./gnu; then
   echo " "
   echo "Hmm...  A GNU system without a GNU C Library?  Weird..." >&4
   dflt=n
  else
   dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
   if $test $dflt -gt 20; then
    dflt=y
   else
    dflt=n
   fi
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the
 'nm' extraction part and to compile a small
test program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

EOM
rp='Shall I use nm to extract C symbols from the libraries?'
```

```
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt="  # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p'  # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p'  # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p'  # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

?X: nm options which may be necessary for shared libraries but illegal
?X: for archive libraries.  Thank you,
 Linux.
case "$nm_so_opt" in
") case "$osname" in
 *linux*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/usenm.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

* Feel free to modify any of this as the need arises. Note, however,

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/metaconfig.html
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables.  This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
```

```
?S:
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
```

```
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|'') ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
```

```
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi
```

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
 chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source
   directory. This will create a directory
 'U' under the perl5
   sources. That directory will contain the metaconfig units for perl5.
   This will also create two files in the perl5 source tree:
   MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
   (This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
   regenerate the .package file. IMPORTANT: Change the name and
   address of the maintainer to your own name and address. I don't
   want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

 metalint (or mlint)

   and repair every failure it reports.

7. From your main perl5 source directory, run

 metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70
   location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
 of the Porting/
   subdirectory, or run all parts by hand. (see README)

   NB: this script used to be U/mksample replaced by Porting/mksample;
   see Porting/pumpkin.pod instead for current documentation on its
   use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
   start with the randfunc.U unit included here. It's currently
   broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/
   This is an old patch to begin to detect and use ACL (access
   control list) file protection schemes.

compline/

These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the new
Compile.U unit. I have submitted these for inclusion into the
regular dist distribution. (The ccflags.U
unit is actually
perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE,
but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes. I have submitted these for inclusion
into the regular dist distribution.

target/
This is the very, very beginning of cross-compiler support.
It doesn't work yet, and many standard units will need
modification.

typedefs/
These are standard units modified to use the modified Typedef.U
unit to check for typedefs. (The modified Typdef.U includes a
function to avoid unnecessary prompts if the typdef being searched
for exists.) I have submitted these for inclusion into the
regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/README.dist
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.
```

```
If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val="'$extras'"
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Extras.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: afs cat nroff Loc Oldconfig \
 spackage test Getfile Prefixit prefixexp
 Prefixup sysman Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
: determine
 where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
```

```
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)
  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir="
fi
man1dir="$ans"
man1direxp="$ansexp"
case "$man1dir" in
") man1dir=' '
 installman1dir=";;
esac
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).
```

```
EOM
 case "$installman1dir" in
 ") dflt=`echo $man1direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman1dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman1dir="$ans"
else
 installman1dir="$man1direxp"
fi

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p)
 dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1) dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Loc Oldconfig byacc bison cat test
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This variable contains any
 additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
case "$yacc" in
")
 yacc=`./loc yacc yacc $pth`
 if $test -f "$yacc$_exe"; then
  dflt='yacc'
 elif $test -f "$byacc$_exe"; then
  dflt='byacc'
 elif $test -f "$bison$_exe"; then
  dflt='bison'
 else
```

```
  dflt="
 fi
 ;;
*) dflt="$yacc";;
esac
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behaviour.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are
 explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/yacc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: warnflags.U,v $
?RCS: Revision 3.0  1993/08/18  12:10:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:warnflags: cat cc contains Myread Guess Oldconfig Findhdr
?MAKE: -pick add $@ %<
?S:warnflags:
?S: This variable contains any additional C compiler flags to generate
?S: warnings from the compiler. It is up to the Makefile to use this.
?S:.
: offer additional
 warning flags for compilation
$cat <<EOH

You may wish to compile with extra compiler warnings enabled.
Note that doing so enhances your chance of receiving your free set of steak
knives, particularly if you find any bugs and report them.
If you don't want extra warnings, answer "none".

EOH
case "$warnflags" in
") case "$cc" in
 *gcc*)
  dflt="-Wall -Wno-comment"
  if $contains 'fprintf' `./findhdr stdio.h` >/dev/null 2>&1; then
   :
  else
   dflt="$dflt -Wno-implicit"
  fi
  ;;
 *) dflt="none";;
 esac
 ;;
' ') dflt="none";;
```

```
*) dflt="$warnflags";;
esac

rp="Any $cc flags to enable warnings?"
. ./myread
case "$ans" in
none) warnflags=' ';;
*) warnflags="$ans";;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/warnflags.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
```

```
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Mkdirp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?MAKE:packadmin: cf_email Oldconfig Myread cat spackage package
?MAKE: -pick add $@ %<
?Y:TOP
?S:packadmin:
?S: Electronic mail address of the package administrator.
?S:.
: check wehther they will act as local admin for the package
$cat <<EOM

If you or somebody else will be maintaining $package at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary.  You may enter "none"
 for no administrator.

EOM
case "$packadmin" in
") dflt="$cf_email";;
*) dflt="$packadmin";;
esac
rp="$spackage administrator e-mail address"
. ./myread
packadmin="$ans"
```

Found in path(s):

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/packadmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
```

```
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs="
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is
 available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
```

```
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5
 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
libsfound=''
libsfiles=''
libsdirs=''
libspath=''
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx=''
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib.$so$_a
  $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle="import"
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/$thislib.$so$_a
```

```
 $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle="import"
    fi
    if test ! -f "$xxx";
then
 xxx=$thisdir/lib$thislib.$so
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
 $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
 case "$libstyle" in
 shared) echo "Found -l$thislib (shared)." ;;
 static) echo "Found -l$thislib." ;;
 *)      echo "Found -l$thislib ($libstyle)." ;;
 esac
 case " $dflt " in
 *"-l$thislib "*);;
 *)
dflt="$dflt -l$thislib"
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
    case " $libsdirs " in
    *" $yyy "*) ;;
    *) libsdirs="$libsdirs $yyy" ;;
    esac
```

```
    ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
```

```
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
```

```
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
'') ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
       echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
       despair=yes
       trygcc=yes
       case "$cc" in
       *gcc*) trygcc=no ;;
       esac
       case "`$cc -v -c try.c 2>&1`" in

      *gcc*) trygcc=no ;;
       esac
       if $test X"$trygcc" = Xyes; then
           if gcc -o try -c try.c; then
               echo " "
               echo "You seem to have a working gcc, though." >&4
               rp="Would you like to use it?"
               dflt=y
               if $test -f myread; then
                   . ./myread
               else
                   if $test -f UU/myread; then
                       . ./UU/myread
                   else
                       echo "Cannot find myread, sorry.  Aborting." >&2
                       exit 1
                   fi
               fi
               case "$ans" in
```

```
            [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                    $cat *.cbu >checktmp 2>/dev/null
                    if $contains ccflags checktmp >/dev/null; then

        ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                    fi;;
            esac
        fi
    fi
  fi
  $rm -f try try.*
  ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
") ;;
*)  $rm -f try try.*
  $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
  if $cc -o try $ccflags $ldflags try.c; then
    :
  else
    if $test X"$despair" = Xyes; then
      echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
    fi
    $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
    exit 1
```

```
   fi

 $rm -f try try.*
   ;;
esac
EOSC
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Checkcc.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
```

```
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
```

```
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
```

```
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
   $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
```

```
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
   if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
   then
    linkmsg=""
   else
    linkmsg=" but I can't link against it"
   fi
   case "$libstyle" in
   shared) echo "Found -l$thislib (shared)$linkmsg." ;;
   static) echo "Found -l$thislib$linkmsg." ;;
   *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
   esac
   case " $dflt " in
   *"-l$thislib "*) ;;
   *)
    case "$linkmsg" in
    ")
     dflt="$dflt -l$thislib"
     libsfound="$libsfound $xxx"
     yyy=`basename $xxx`
     libsfiles="$libsfiles $yyy"
     yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
     case " $libsdirs
 " in
     *" $yyy "*) ;;
     *) libsdirs="$libsdirs $yyy" ;;
     esac
       ;;
    esac
    ;;
   esac
   break
     fi
 done
 if $test ! -f "$xxx"; then
     echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
```

```
case "$dflt" in
' '|'') dflt='none';;
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libs.U
No license file was found, but licenses were detected in source scan.

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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so: test libpth Loc Myread Oldconfig cat
?MAKE: -pick add $@ %<
?S:so:
```

```
?S: This variable holds the extension used to identify
 shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: n.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:n c: contains
?MAKE: -pick add $@ %<
?S:n:
```

```
?S: This variable contains the -n flag if that is what causes the echo
?S: command to suppress newline.  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
?S:c:
?S: This variable contains the \c string if that is what causes the echo
?S: command to suppress newline.
  Otherwise it is null.  Correct usage is
?S:     $echo $n "prompt for a question: $c".
?S:.
: first determine how to suppress newline on echo command
echo " "
echo "Checking echo to see how to suppress newlines..."
(echo "hi there\c" ; echo " ") >.echotmp
if $contains c .echotmp >/dev/null 2>&1 ; then
 echo "...using -n."
 n='-n'
 c=''
else
 cat <<'EOM'
...using \c
EOM
 n=''
 c='\c'
fi
echo $n "The star should be here-->$c"
echo '*'
rm -f .echotmp
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/n.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
```

```
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
```

```
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".
```

```
EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
```

```
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

```
*  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/Jmake.tmpl
No license file was found, but licenses were detected in source scan.

```
# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Harlan Stenn <harlan@mumps.pfcs.com>
#
# $Log: errnolist.a,v $
# Revision 3.0  1993/08/18 12:04:35  ram
# Baseline for dist 3.0 netwide release.
#
#
# This is a simple-minded awk script to generate an initialization for
# sys_errnolist on systems that don't have it.
# This file now depends only on sys/errno.h error numbers under maxerr being
# in order.  It will complain and die if not.  NOTE: It will still produce
# a compilable output file, even with errors, so you must
 check the output.
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.a
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
fi
```

```
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
if
```

```
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
```

```
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
```

```
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lex.U
No license file was found, but licenses were detected in source scan.

```
/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
```

```
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\\/]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx
 $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
```

```
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$_grep
;;
esac
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$_cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$_gmake
fi
;;
esac
@end
case "$test" in
test)
```

```
echo "Hopefully test is built into
 your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible.  In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c=";;
esac
cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built
 in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
```

```
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs=''
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
   ;;
*) case "$usedl" in
   $define|true|[yY]*)
     set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
```

```
    shift
    perllibs="$*"
    ;;
  *) perllibs="$libs"
    ;;
  esac
  ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: shm_for.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:28:37  ram
?RCS: patch36: call ./Cppsym explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:shm_for shm_att shm_lim: Cppsym Myread ipc uname
?MAKE: -pick add $@ %<
?S:shm_for:
?S: This variable tells us the type of machine we're expecting the
?S: shared memory code to run on.  The value is available to C
 programs
?S: in the C_SHM_FOR manifest.
?S:.
?S:shm_att:
?S: This variable tells us where a shared memory segment should be
?S: attached.  Good values are HIGH, LOW, and ZERO.
?S:.
?S:shm_lim:
?S: This variable tells us if shared memory attached HIGH should
?S: have an upper limit.
?S:.
?X: ----------------------------------------------------------
?X: It's a potential lose to define anything beginning with SHM...
?X: At least we can think that S_ stands for "String version of ..." -- HMS
?X: ----------------------------------------------------------
?C:S_SHM_FOR ~ %<:
?C: This symbol identifies what we chose for the target system's
?C: default shared memory configuration parameters.
?C:.
?C:S_SHM_ATT ~ %<:
?C: This symbol holds the default "place" to attach shared memory.
?C: Values are "HIGH", "ZERO", and "LOW".
?C:.
?C:S_SHM_LIM ~ %<:
?C: This symbol holds the default upper bound address limit if shared
?C: memory is attached HIGH.  If zero, there is no upper limit.
?C:.
?H:?%<:#ifdef
 SERVE_SHM
?H:?%<:#define S_SHM_FOR "$shm_for"
?H:?%<:#define S_SHM_ATT "$shm_att"
?H:?%<:#define S_SHM_LIM "$shm_lim"
?H:?%<:#endif
?H:.
?W:%<:S_SHM_FOR S_SHM_ATT S_SHM_LIM
: see how to attach shared memory
```

```
echo " "
echo "Deciding how to attach shared memory..." >&4

case "$ipc" in
shm)
 shm_for='Default case'
 shm_att='HIGH'
 shm_lim='0x0'
 if ./Cppsym tower32 tower32_600; then
  echo "NCR Towers are usually normal..."
  : echo "Oh, an NCR Tower."
  : This works for the 600
  shm_for='NCR Tower 32'
  shm_att='LOW'
 else
  case "$uname" in
  */uname)
   case "`uname -m`" in
   ACS??68*)
    echo "Oh, an Altos 3068."
    shm_for='Altos 3068:'
    shm_lim='0x800000'
    ;;
    esac
    ;;
  *)
   echo "Looks normal to me..."
   ;;
  esac
 fi

 dflt="$shm_for"
 rp='Description of shared memory configuration?'
 . ./myread
 shm_for="$ans"

 dflt="$shm_att"
 rp='Where should shared memory be attached?'
 . ./myread
 shm_att="$ans"

 case "$shm_att" in
 HIGH)
  dflt="$shm_lim"
  rp='What is
 the upper address limit for shared memory?'
  . ./myread
  shm_lim="$ans"
```

```
  ;;
 *)
  shm_lim=''
  ;;
 esac
 ;;

*)
 echo "but you aren't using shared memory so I won't bother." >&4
 shm_for='NOT CONFIGURED'
 shm_att='NONE'
 shm_lim='-1'
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/shm_for.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
```

```
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
```

```
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.
```

```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
```

```
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. You may enter "none" for no administrator.

EOM
case "$perladmin" in
") dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
```

```
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
```

```
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir=''
@end
case
 "$install" in
'')
 tryit=''
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
```

```
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
 '')
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
@else
  dflt='install'
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM
```

```
I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
```

```
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir=''
   fi
   ;;
  esac
 fi
 $rm
 -rf foo
 case "$creatdir" in
 '')
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
@else
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
  ;;
 *) installdir="$creatdir";;
 esac
 ;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
```

```
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*""\$"'/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
  esac
 fi
```

```
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Filexp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
```

```
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_who.U
No license file was found, but licenses were detected in source scan.

```
#  You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/fixcpp
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/errnolist.mk
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/makegloss
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/bindex
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_perror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_link.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_table.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/filexp_path.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysun.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strtod.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getopt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systimeb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_popen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mboxchar.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rmdir.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cpp_trad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setreuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pwritev.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pidcheck.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/vaproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_linuxstd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_select.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mkdir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_siglist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strchr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_scorfl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strxfrm.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysndir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tzmin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tcgtpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syssock.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_locconv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pause.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sbrk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rusage.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/defeditor.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_internet.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nametype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dup2.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ftrncate.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_values.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cppfilecom.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpgrp2.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_limits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mblen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wcstombs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systypes.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sbrktype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Assert.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_SHM_MAC.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_alarm.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_normsig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setrgid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fgetpos.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strcoll.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysparam.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/vaproto.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysselct.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_arpainet.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systable.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syspoll.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_itimer.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fchmod.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_waitpid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ckeypad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_mkostemp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_readlink.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setregid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strtok.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/rootid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pipe.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_syslog.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_pipe2.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ffs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strxfrm_l.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fcntl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_drem.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_PORTAR.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sighold.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_munmap.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msem_lck.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_dbm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/newslib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Loc_sed.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tminsys.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_float.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_stdint.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setpgid.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dlerror.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mailfile.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_gdbm.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigvec.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_umask.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/compiler_warning.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_scandir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_bsdjmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mbtowc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msgsnd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systimes.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_syswait.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pwrite.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Prefixit.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ctermid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_havetlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_symlink.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msync.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_truncate.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msgget.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setlnbuf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_string.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_raster.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_seteuid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_fcntl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_fenv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_memory.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Getfile.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setprior.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_inetd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_usleep.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setsid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_lockf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_difftime.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shmdt.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strcspn.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fchown.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sjis2jis.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wait3.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Obsol_sh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_bcopy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_cuserid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_usendir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Obsol_h.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_preadv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_chroot.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pread.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setlocale.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_regcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mkfifo.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/newsspool.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/locdist.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysresrc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_setlocale.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memmove.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_dlfcn.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_dbl_dig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wait4.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_dld.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_semctl.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getpgid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/mkdep.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memalign.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_lstat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_regex.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fmod.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_syscall.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nlist_pfx.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_unistd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_nice.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sfio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/orgname.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_charsprf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_pathconf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_stdlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getgrps.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_xdrs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/prefshell.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_locale.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_nolnbuf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setruid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_killpg.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_vfork.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ftime.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysstat.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_utime.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ilp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strdup.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysioctl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_psignal.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_speedopt.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/basicshell.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_brokstat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_flock.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_semop.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tzname.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ulimit.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/registers.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_stdlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rename.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_euc2jis.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_stddef.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_dbl_dig.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dup3.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_whoami.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_cbrt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_bzero.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setgrps.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_su_chown.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_wctomb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_ffs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shmget.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_uwait.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_gethid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/pkgsrc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setegid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigblock.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_tcstpgrp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Magic_h.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_niin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mktime.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fsetpos.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getprior.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_shmctl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_fork.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_termio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_setpgrp2.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_accept4.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msgctl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_chown.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getlogin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_stat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_bcmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_NeWS.U
*

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_chsize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getwd.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_inetaton.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_mbstowcs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_getppid.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_hidnet.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_newsadm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigsetmk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_system.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/groupstype.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strstr.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_msgrcv.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memset.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_rdchk.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysfile.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_memccpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sysconf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_math.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_semget.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strccmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/ipc.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_crypt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_systwgcf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_readdir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_strtol.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_poll.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/i_sysdir.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2 1997/02/28 15:21:21 ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1 1994/10/29 16:02:01 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:

```
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp=''
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir=''
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
'')
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
```

```
prefixvar=sitehtml1dir
. ./setprefixvar

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitehtml1dir.U
No license file was found, but licenses were detected in source scan.

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?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:sysman: test
 Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1 /usr/share/man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
```

```
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form." >&4
fi

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/sysman.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
```

```
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 ") dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix="
 case "$vendorprefix" in
 ") ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
```

```
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix=''
 vendorprefixexp=''
 ;;
esac
```

Found in path(s):
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
```

```
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir="
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
```

```
?S:.
?D:html1direxp=''
?S:html1direxp:
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir=''
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
''|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

Found
 in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
```

```
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
```

```
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
: Set private lib path
case "$plibpth" in
'') if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist='';;
'') dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth=''
```

```
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM
case "$libpth" in
") dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libpth.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: setsid.C,v 3.0.1.1 1994/01/24 13:58:47 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
```

```
*
* $Log: setsid.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:47  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/setsid.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
```

```
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=''
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
```

```
esac
case "$libs" in
") ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try="
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
```

```
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
```

```
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt="
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
```

```
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
```

```
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
```

```
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed
 -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
```

```
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if
    bld t $libc | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo
 "Ok." >&4
   else
    echo "That didn't work either." >&4
    echo "No problem, I'll be compiling test programs then..." >&4
    runnm=false
   fi
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
```

```
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp="
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir="
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
") dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
```

```
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name="
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
```

```
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d ""\`
 case "\$name" in
 *[/\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
```

```
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
```

```
?X:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir
 man3direxp man3ext installman3dir: afs cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile prefix Prefixit Prefixup \
 d_flexfnam privlib Myread
?MAKE: -pick add $@ %<
?Y:TOP
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual
 page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
```

```
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: We dont use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with TCL man pages.
?X: However, something like /opt/perl/man/man3
 is fine.
case "$man3dir" in
") case "$prefix" in
 *$package*) dflt=`echo $man1dir |
   $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'` ;;
 *) dflt="$privlib/man/man3" ;;
 esac
 ;;
' ') dflt=none;;
*) dflt="$man3dir" ;;
esac
echo " "

fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
if test "X$man3direxp" != "X$ansexp"; then
 installman3dir="
fi

man3dir="$ans"
man3direxp="$ansexp"
case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac
```

```
if $afs; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installman3dir" in
 ") dflt=`echo $man3direxp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installman3dir";;
 esac
 fn=de~
 rp='Where will man pages be installed?'
 . ./getfile
 installman3dir="$ans"
else
 installman3dir="$man3direxp"
fi

: What suffix
 to use on installed man pages

case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
```

```
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:     You may distribute under the terms of either the GNU General Public
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/archlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/a_dvisory/multiarch.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlpath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/privlib.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_portable.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/startperl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
```

```
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
```

```
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
```

```
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir="
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp="
?S:html3direxp:
?S: This variable
```

```
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir="
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
") html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/html3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:47:29  ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
```

```
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: Original author Jarkko Hietaniemi <jhi@iki.fi>
?RCS: Merged into dist by Andy Dougherty  July 13, 1998
?RCS:
```

```
?MAKE:trnl: Nothing
?MAKE: -pick add $@ %<
?S:trnl:
?S: This variable contains the value to be passed to the tr(1)
?S: command to transliterate a newline.  Typical values are
?S: '\012' and '\n'.  This is needed for EBCDIC systems where
?S: newline is not necessarily '\012'.
?S:.
?T: DJGPP
: Find the appropriate value for a newline for tr
?X: We can't
 use $tr since that would cause a circular dependency via Myread
?X: dos djgpp uses '\015\012', but reportedly is happy with '\012' in the
?X: tr command.  I don't know why it passes the '\n' test but later
?X: refuses to work correctly with it.  --AD  6/14/98
if test -n "$DJGPP"; then
	trnl='\012'
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\n' x 2>/dev/null`" in
 foox) trnl='\n' ;;
 esac
fi
if test X"$trnl" = X; then
 case "`echo foo | tr '\012' x 2>/dev/null`" in
 foox) trnl='\012' ;;
 esac
fi
if test X"$trnl" = X; then
	case "`echo foo | tr '\r\n' xy 2>/dev/null`" in
	fooxy) trnl='\n\r' ;;
	esac
fi
if test X"$trnl" = X; then
 cat <<EOM >&2

$me: Fatal Error: cannot figure out how to translate newlines with 'tr'.

EOM
 exit 1
fi

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/trnl.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
```

```
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?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
```

```
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/nullified/lib.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
```

```
?RCS: Copyright (c) 1996-1999, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir=''
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
```

```
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
```

```
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
```

```
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/man3dir.U
No license file was found, but licenses were detected in source scan.

```
/* $Id: Jmake.rules 18 2006-12-27 10:35:09Z rmanfredi $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: Jmake.rules,v $
* Revision 3.0.1.7  2004/08/22 08:28:58  ram
* patch71: random cleanup
*
* Revision 3.0.1.6  1997/02/28  14:56:01  ram
* patch61: now handles USRINC for dependencies
* patch61: smarter about dependencies computation
*
* Revision 3.0.1.5  1995/09/25  09:07:19  ram
* patch59: smarter sed command to strip /usr/include dependencies
*
* Revision 3.0.1.4  1995/07/25  13:33:59  ram
* patch56: install of script man pages can now cope with missing files
```

```
* patch56: the clobber
 target now removes the .config directory as well
*
* Revision 3.0.1.3  1995/03/21  08:35:28  ram
* patch52: suppressed extra argument to NormalProgramTarget call
*
* Revision 3.0.1.2  1995/01/11  14:49:55  ram
* patch45: new macros ShellScriptTargetExt and SimpleShellScriptTargetExt
* patch45: directory installation is now made via INSTALLDIR (Configure)
*
* Revision 3.0.1.1  1994/10/29  15:46:30  ram
* patch36: added RemoteDependency rule
*
* Revision 3.0  1993/08/18  12:04:14  ram
* Baseline for dist 3.0 netwide release.
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/files/Jmake.rules
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin=''
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
```

```
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp="
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin="
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
") dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versiononly: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versiononly
?Y:TOP
?S:versiononly:
```

```
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versiononly is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versiononly" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versiononly
eval $setvar

case "$versiononly" in
"$define") inc_version_list="
          inc_version_list_init=0
         ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/versiononly.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

```
/*
* $Id: dup2.C,v 3.0.1.1 1994/01/24 13:58:37 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
```

```
*
* Original Author: Larry Wall <lwall@netlabs.com>
*
* $Log: dup2.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:37  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/dup2.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: spitshell.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:22:12  ram
?RCS: patch61: removed useless chatter as this is now done very early
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:37:01  ram
?RCS: patch45: use 'test -f' instead of 'test -r' for exec-only cat progs (WED)
?RCS: patch45: protected "sh -c" within backquotes for Linux and SGI
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:33:00  ram
?RCS: patch32: don't create spitshell under the UU directory
?RCS:
 patch32: allow for cat in /bin or /usr/bin
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:12:58  ram
?RCS: patch10: made #!-failure message more friendly (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:spitshell shsharp sharpbang: eunicefix sh Head
?MAKE: -pick add $@ %<
?S:spitshell:
?S: This variable contains the command necessary to spit out a runnable
?S: shell on this system.  It is either cat or a grep -v for # comments.
?S:.
```

```
?S:shsharp:
?S: This variable tells further Configure units whether your sh can
?S: handle # comments.
?S:.
?S:sharpbang:
?S: This variable contains the string #! if this system supports that
?S: construct.
?S:.
?F:!sharp
?T:xcat p
?X: "paths" comes from Head
?LINT:extern paths _exe
: see if sh knows # comments
?X: This is loaded up early, so avoid being chatty.
?X: echo " "
?X: echo "Checking your $sh to see if it knows about # comments..." >&2
if `$sh -c '#' >/dev/null 2>&1`; then
?X: echo
 "Your $sh handles # comments correctly."
 shsharp=true
 spitshell=cat
?X: echo " "
?X: echo "Okay, let's see if #! works on this system..."
 xcat=/bin/cat
 test -f $xcat$_exe || xcat=/usr/bin/cat
 if test ! -f $xcat$_exe; then
  for p in `echo $PATH | sed -e "s/$p_/ /g"` $paths; do
   if test -f $p/cat$_exe; then
    xcat=$p/cat
    break
   fi
  done
  if test ! -f $xcat$_exe; then
   echo "Can't find cat anywhere!"
   exit 1
  fi
 fi
 echo "#!$xcat" >sharp
 $eunicefix sharp
 chmod +x sharp
 ./sharp > today 2>/dev/null
 if test -s today; then
?X:  echo "It does."
  sharpbang='#!'
 else
  echo "#! $xcat" > sharp
  $eunicefix sharp
  chmod +x sharp
```

```
  ./sharp > today 2>/dev/null
  if test -s today; then
?X:   echo "It does."
   sharpbang='#! '
  else
?X:   echo "Okay, let's see if #! works on this system..."
?X:   echo "It's just a comment."
   sharpbang=': use '
  fi
 fi
else
 echo " "
 echo "Your $sh doesn't grok # comments--I will strip them later on."
 shsharp=false
?X: The
 spitshell script will be perused, so leave it out the UU directory
 cd ..
 echo "exec grep -v '^[  ]*#'" >spitshell
 chmod +x spitshell
 $eunicefix spitshell
 spitshell=`pwd`/spitshell
 cd UU
 echo "I presume that if # doesn't work, #! won't work either!"
 sharpbang=': use '
fi
rm -f sharp today
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/spitshell.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
```

```
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".
```

```
EOH
 rp=''
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
```

```
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: make.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:09:40  ram
?RCS: patch61: created
?RCS:
?MAKE:make_set_make : Loc rm sed make
?MAKE: -pick add $@ %<
?S:make_set_make:
?S: Some versions of 'make' set the variable MAKE.  Others do not.
?S: This variable contains the string to be included in Makefile.SH
?S: so that MAKE is set if needed, and not if not needed.
?S: Possible values are:
?S:
?S: make_set_make='#'  #
 If your make program handles this for you,
?S:
?S: make_set_make="MAKE=$make" # if it doesn't.
?S:
?S: This uses a comment character so that we can distinguish a
?S: 'set' value (from a previous config.sh or Configure -D option)
?S: from an uncomputed value.
?S:.
?LINT: extern MAKE
?LINT: change MAKE
?X: This test is based on one from an autoconf-generated configure
?X: script. Autoconf stole a lot from Configure, but now it's our
?X: turn to do so... ;-) -- RAM, 21/02/97
```

```
: check whether make sets MAKE
echo " "
echo "Checking if your $make program sets \$(MAKE)..." >&4
case "$make_set_make" in
")
?X: Use sed so we don't have a line begining with @echo.  Metaconfig
?X: will think that's a command like @if or @end.
 $sed 's/^X //' > testmake.mak << 'EOF'
Xall:
X  @echo 'maketemp="$(MAKE)"'
EOF
?X: GNU make sometimes prints "make[1]: Entering...", which would confuse us
 case "`$make -f testmake.mak 2>/dev/null`" in
 *maketemp=*) make_set_make='#' ;;
 *) make_set_make="MAKE=$make" ;;
 esac
 $rm
 -f testmake.mak
 ;;
esac
case "$make_set_make" in
'#') echo "Yup, it does.";;
*) echo "Nope, it doesn't.";;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/make.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
```

```
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/kernel.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat groupcat hostcat:
 Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S:.
: see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
```

```
 if $test -f /usr/etc/nibindd; then
  echo
 " "
  echo "I'm fairly confident you're on a NeXT."
@if passcat || groupcat
  echo " "
  rp='Do you get the passwd file via NetInfo?'
  dflt=y
  case "$passcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) passcat='nidump passwd .'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='nidump group .'
@end
   ;;
  *) echo "You told me, so don't blame me."
   case "$passcat" in
   nidump*) passcat="
@if groupcat
     groupcat=";;
@end
   esac
@if groupcat
   echo "(Assuming /etc/group is handled the same way.)"
@end
   ;;
  esac
@end
@if hostcat
  echo " "
  rp='Do you get the hosts file via NetInfo?'
  dflt=y
  case "$hostcat" in
  nidump*) ;;
  ") ;;
  *) dflt=n;;
  esac
  . ./myread
  case "$ans" in
  y*) hostcat='nidump hosts .';;
  *) case "$hostcat" in
   nidump*) hostcat=";;
```

```
   esac
   ;;
  esac
@end
 fi
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ")
 if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
```

```
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") hostcat=':'
 $test -f /etc/hosts && hostcat='cat
 /etc/hosts';;
esac
case "$groupcat" in
") groupcat=':'
 $test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") passcat=':'
 $test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
```

```
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perl5.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
```

```
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/perl5.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:package spackage:
 Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?C:PACKAGE:
?C: This variable contains the name of the package being built.
?C:.
?H:#define PACKAGE "$package"
?H:.
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
```

```
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`" in
ABYZ) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo
 $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
# $Id: makedepend.sh,v 3.0.1.1 1994/01/24 14:00:05 ram Exp ram $
#
#  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
#
#  You may redistribute only under the terms of the Artistic Licence,
#  as specified in the README file that comes with the distribution.
#  You may reuse parts of this distribution only within the terms of
#  that same Artistic Licence; a copy of which may be found at the root
#  of the source tree for dist 4.0.
#
# Original Author: Larry Wall <lwall@netlabs.com>
#
# $Log: makedepend.sh,v $
# Revision 3.0.1.1  1994/01/24  14:00:05  ram
# patch16: changed top ln-style config.sh lookup into test-style one
#
# Revision 3.0  1993/08/18  12:04:37  ram
# Baseline for dist 3.0 netwide release.
#
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/makedepend.SH
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
```

```
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
```

```
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir=''
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
```

```
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir="
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
") man1dir=' '
 installman1dir=";;
esac

: What suffix to use on installed man pages
```

```
case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 ") case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/man1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
```

```
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
```

```
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/installstyle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
```

```
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
```

```
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
```

```
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
```

```
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
```

```
-e) shift; alldone=cont;;
-f)
 shift
 cd ..
 if test -r "$1"; then
  config_sh="$1"
 else
  echo "$me: cannot read config file $1."
>&2
  error=true
 fi
 cd UU
 shift;;
--help|\
-h) shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift;;
-S) shift; silent=true; extractsh=true;;
-D)
 shift
 case "$1" in
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
```

```
  xxx="
  yyy="$1"
  zzz="
  uuu=undef
  case "$yyy" in
      *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
          case "$zzz" in
          *:*) zzz=" ;;
          *)   xxx=append

          zzz=" "`echo "$yyy"|sed 's!^[^=]*=!!'`
              yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
          esac
          ;;
      esac
      case "$xxx" in
      ")  case "$yyy" in
          *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
              yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
              zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
              yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
          *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
              yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
          esac
          ;;
      esac
  case "$xxx" in
  append)
echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
  clear)
echo "$yyy=""   >> posthint.sh ;;
  define)
     case "$zzz" in
") zzz=define ;;
esac
echo "$yyy='$zzz'"  >> posthint.sh ;;
  eval)
echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
  prepend)
echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
  undef)

    case "$zzz" in
") zzz="$uuu" ;;
esac
echo "$yyy=$zzz"  >> posthint.sh ;;
      *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
  esac
```

```
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol                symbol gets the
 value 'define'
       -D symbol='some value'   symbol is set to 'some value'
     common used examples (see INSTALL for more info):
       -Duse64bitint            use 64bit integers
       -Duse64bitall            use 64bit integers and pointers
       -Dusethreads             use thread support
       -Dinc_version_list=none  do not include older perl trees in @INC
       -DEBUGGING=none          DEBUGGING options
       -Dcc=gcc                 choose your compiler
       -Dprefix=/opt/perl5      choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
     e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
 have been applied:
       -A append:symbol=value   append value to symbol
       -A symbol=value          like append:, but with a separating space
       -A define:symbol=value   define symbol to have value
       -A clear:symbol          define symbol to be ''
       -A define:symbol         define symbol to be 'define'
```

```
        -A eval:symbol=value     define symbol to be eval of value
        -A prepend:symbol=value  prepend value to symbol
        -A undef:symbol          define symbol to be 'undef'
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
             -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
```

```
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
```

```
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
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```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
```

```
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: manfmt.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  16:11:57  ram
?RCS: patch61: don't ask for AFS when they choose to not install pages
?RCS:
?RCS: Revision 3.0.1.4  1995/09/25  09:16:52  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.3  1995/01/30  14:39:20  ram
?RCS: patch49: new installmanfmt and AFS-lookup for formatted man pages
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS:
 Revision 3.0.1.2  1994/08/29  16:30:31  ram
?RCS: patch32: now uses installation prefix for default setting
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:09:22  ram
?RCS: patch10: allows for L1 man page extension (WAD)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:manfmt manfmtexp installmanfmt: Getfile Loc Oldconfig cat manext \
 spackage Prefixit prefixexp Prefixup afs test
?MAKE: -pick add $@ %<
?Y:TOP
?S:manfmt:
?S: This variable contains the name of the directory in which formatted
?S: manual pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command. Note
?S: that you may have to do ~name substitution. Use manfmtexp otherwise.
?S:.
?S:manfmtexp:
?S: This is the same as the manfmt variable, but is filename expanded
?S: at configuration time, for programs not willing to deal with it at
?S: run-time.
?S:.
?S:installmanfmt:
?S: This variable is really
```

```
 the same as manfmtexp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: mansrcexp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change manext
?T:lookpath
: determine where manual pages go
set manfmt manfmt
eval $prefixit
$cat <<EOM

$spackage has pre-formatted manual pages.  If you don't want these installed,
answer 'none' to the next question.

EOM
case "$manfmt" in
")
 lookpath="$prefixexp/catman/man1 $prefixexp/man/cat1"
 lookpath="$lookpath $prefixexp/catman/u_man/man1"
 lookpath="$lookpath $prefixexp/catman/l_man/man1"
 lookpath="$lookpath $prefixexp/catman/cat1 /usr/catman/local/man1"
 lookpath="$lookpath /usr/catman/manl /usr/man/cat1"
 lookpath="$lookpath /usr/catman/mann /usr/catman/l_man/man1"
 lookpath="$lookpath /usr/catman/u_man/man1 /usr/catman/man1"
 dflt=`./loc . none $lookpath`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$manfmt"
 ;;
esac
fn=dn~
rp='Where
 do pre-formatted manual pages go?'
. ./getfile
if test "X$manfmtexp" != "X$ansexp"; then
 installmanfmt=''
fi
manfmt="$ans"
manfmtexp="$ansexp"
if $afs && $test "$manfmt"; then
 $cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
manual pages reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).
```

```
EOM
 case "$installmanfmt" in
 ") dflt=`echo $manfmtexp | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installmanfmt";;
 esac
 fn=de~
 rp='Where will pre-formatted man pages be installed?'
 . ./getfile
 installmanfmt="$ans"
else
 installmanfmt="$manfmtexp"
fi

case "$manfmt" in
") manext='0';;
*l) manext=l;;
*n) manext=n;;
*o) manext=l;;
*p) manext=n;;
*C) manext=C;;
*L) manext=L;;
*L1) manext=L1;;
*) manext=1;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/manfmt.U
No license file was found, but licenses were detected in source scan.

```
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Head.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
 vendorhtml1direxp="
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 ") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
```

```
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
```

```
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libnlist.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/Hasfield.U

No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: You may distribute under the terms of either the GNU General Public
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_sigsetjmp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/compline/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
```

```
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 ") dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.

EOM
 case "$installprefix" in
 ") dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlxvf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_socks.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_j0.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/perlxv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_ftello.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_tmpnam_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_logb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysvfs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getfsstat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/typedefs/uidf.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_class.U
*
```

/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysstatfs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_exp2.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_random_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/useperlio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fs_data_s.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_fp_class.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/infnan.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/i_netdb.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getpwnam_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/Sysroot.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_towupper.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/protos/socksizetype.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fmin.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_frexpl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fsat.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_dlsymun.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_memmem.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysstatvfs.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_faststdio.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysutsname.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysmode.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fseeko.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/libperl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_gmtime_r.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_scalbn.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getenv_thread.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_prctl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getpwuid_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lround.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sitecustomize.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fcntl_can_lock.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endprotoent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_strerror_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_finite.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_unsetenv.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_bfd.U
*
/perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_setgrent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getprotby.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usemorebits.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_log2.U
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* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getnetent_r.U
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*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservbyport_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lrintl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_libm_lib_version.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_shadow.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getmnt.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llrint.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_crypt.U

* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getservent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setprotoent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_srandom_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_gethostbyname_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_longlong.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isfinitel.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/d_getnbyad.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isless.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_msghdr_s.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usequadmath.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_lgamma.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_ctime_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_endnetent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setpwent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usemultiplicity.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_off64_t.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fpclass.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_pthrattrj.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_asinh.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fchdir.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_sqrtl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_mntent.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strtoq.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llrintl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_timegm.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getgrent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_llround.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_getprotoent_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_aintl.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_localtime_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_timefuncs64.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strlcpy.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/threads/d_setlocale_r.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_sysmount.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_strnlen.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/i_ieeefp.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_getitimer.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_mkstemps.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_towlower.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_fp_classl.U
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/usefaststdio.U
*
 /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/perl/d_isfinite.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
```

```
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
 cf_email="$ans"
 case "$cf_email" in
 *@*.*) cont=" ;;
 *)
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
```

```
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
```

```
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
```

```
'-'|'') dflt=none;;
*) dflt="$usermail";;
esac
rp='Manually specify a return address to use:'
. ./myread
case "$ans" in
none|*@*.*)
 case "$ans" in
 none) usermail='-';;
 *) usermail="$ans";;
 esac
 ;;
*)
 echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
 usermail='-'
 mailpatches=false
 notifypatches=false
 ;;
esac
echo " "
opt=''
rp='Would you like to have new patches automatically mailed to you?'
case "$mailpatches" in
true) dflt=y;;
*) dflt=n;;
esac
. ./myread
case "$ans" in
[yY]*) opt=' mailpatches'; mailpatches=true;;
*)
 mailpatches=false
 echo " "
 rp='Ok, would you like to simply be notified of new patches?'
 case "$notifypatches" in
 false) dflt=n;;
 *) dflt=y;;
 esac
 . ./myread
 echo " "
 case "$ans" in
 [yY]*) opt=' notifypatches'; notifypatches=true;;
 *)
```

```
   echo "Fine, I'll simply say that you've tried it then."
   notifypatches=false
   ;;
  esac
  ;;
 esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
```

```
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs=''
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
'') _a='.a';;
esac
case "$_o" in
'') _o='.o';;
esac

@if firstmakefile
```

```
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
```

```
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
```

```
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
 *) _a="$lib_ext" ;;
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
") case "$path_sep" in
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/modified/Unix.U

No license file was found, but licenses were detected in source scan.

```
/*
* $Id: scandir.C,v 3.0.1.1 1994/01/24 13:58:45 ram Exp ram $
*
*  Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
*
*  You may redistribute only under the terms of the Artistic Licence,
*  as specified in the README file that comes with the distribution.
*  You may reuse parts of this distribution only within the terms of
*  that same Artistic Licence; a copy of which may be found at the root
*  of the source tree for dist 4.0.
*
* $Log: scandir.C,v $
* Revision 3.0.1.1  1994/01/24  13:58:45  ram
* patch16: created
*
*/
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/lib/C/fake/scandir.C
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: orderlib.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:18:18  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: likewise for .o replaced by $_o
?RCS: patch61: now uses the ar located by Loc.U
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:33:04  ram
?RCS: patch45: allows hint files to specify their own value for 'ranlib'
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:26:48  ram
?RCS: patch36: now performs a real small compile for accurate checks (ADO)
?RCS:
?RCS: Revision 3.0.1.1
  1994/08/29  16:31:17  ram
?RCS: patch32: use cc variable instead of hardwired 'cc' in 1st compile
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:26  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:orderlib ranlib: Loc ar cat test rm +cc +ccflags +ldflags +libs _a _o
?MAKE: -pick add $@ %<
?S:orderlib:
?S: This variable is "true" if the components of libraries must be ordered
?S: (with `lorder $* | tsort`) before placing them in an archive.  Set to
?S: "false" if ranlib or ar can generate random libraries.
?S:.
?S:ranlib:
?S: This variable is set to the pathname of the ranlib program, if it is
?S: needed to generate random libraries.  Set to ":" if ar can generate
?S: random libraries or if random libraries are not supported
?S:.
?F:!foobar
: see if ar generates random libraries by itself
echo " "
echo "Checking how to generate random libraries on your machine..." >&4
?X: Some systems (like MIPS) complain when running ar... Others like Ultrix
?X: need an explicit 'ar ts'
 to add the table of contents.
?X: Still others like Linux run ar ts successfully, but still need ranlib.
?X: This set of tests seems the minimum necessary to check out Linux.
?X: We need to explicitly put the entries in out-of-order so that Sun's ld
?X: will fail.  (Otherwise it complains, but gives an exit status of 0.)
echo 'int bar1() { return bar2(); }' > bar1.c
echo 'int bar2() { return 2; }' > bar2.c
$cat > foo.c <<'EOP'
int main() { printf("%d\n", bar1()); exit(0); }
EOP
$cc $ccflags -c bar1.c >/dev/null 2>&1
$cc $ccflags -c bar2.c >/dev/null 2>&1
$cc $ccflags -c foo.c >/dev/null 2>&1
$ar rc bar$_a bar2$_o bar1$_o >/dev/null 2>&1
if $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
 echo "ar appears to generate random libraries itself."
 orderlib=false
 ranlib=":"
elif $ar ts bar$_a >/dev/null 2>&1 &&
 $cc $ccflags $ldflags -o foobar foo$_o bar$_a $libs > /dev/null 2>&1 &&
 ./foobar >/dev/null 2>&1; then
  echo "a table of contents
 needs to be added with 'ar ts'."
  orderlib=false
  ranlib="$ar ts"
```

```
else
?X: Allow hints to specify their own ranlib "script". For instance, on
?X: some NeXT machines, the timestamp put by ranlib is not correct, and this
?X: may raise tedious recompiles for nothing. Therefore, NeXT may add the
?X: ranlib='sleep 5; /bin/ranlib' line in their hints to "fix" that.
?X: (reported by Andreas Koenig <k@franz.ww.tu-berlin.de>)
 case "$ranlib" in
 :) ranlib="";;
 ")
  ranlib=`./loc ranlib X /usr/bin /bin /usr/local/bin`
  $test -f $ranlib || ranlib=""
  ;;
 esac
 if $test -n "$ranlib"; then
  echo "your system has '$ranlib'; we'll use that."
  orderlib=false
 else
  echo "your system doesn't seem to support random libraries"
  echo "so we'll use lorder and tsort to order the libraries."
  orderlib=true
  ranlib=":"
 fi
fi
$rm -f foo* bar*
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/orderlib.U
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```
?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
```

```
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/lintlib.U
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```
?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
```

```
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir=''
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
'') vendorhtml3dir=''
 vendorhtml3direxp=''
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 '') dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/U/installdirs/vendorhtml3dir.U

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```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
```

```
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
  ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
esac
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/libyacc.U
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```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/longsize.U
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```
?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/d_group.U
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```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
```

```
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Nothing.U
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```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /perl-5-38-2-orig-regen-configure-1-tar-xz/metaconfig-5.38.0/dist/U/Warn_v7ND.U

1.5040 perl 5.38.2-3.2ubuntu0.2

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1.5041 iproute 6.1.0-1ubuntu6.2

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47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
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51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
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58. [62]Paul A Vixie <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver
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 // 10.1: License Identifier: "LicenseRef-[idstring]"
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 LicenseIdentifier string `json:"licenseId"`
```

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// 10.2: Extracted Text
// Cardinality: conditional (mandatory, one) if there is a
//             License Identifier assigned
ExtractedText string `json:"extractedText"`

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// Cardinality: conditional (mandatory, one) if license is not
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LicenseName string `json:"name,omitempty"`

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LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

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// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
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Go support for Protocol Buffers - Google's data interchange format

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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.
type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
```

```
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
 License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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```
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type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
 optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.5048 jaxb-core 8.86.0.25

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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1.5054 python-pip 25.2

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)

2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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1.5058 snapd 2.67.1+22.04

1.5058.1 Available under license :

```
package notify

import (
 "fmt"
 "strings"
)

// FilePermission is a bit-mask of apparmor permissions in relation to files.
// It is applicable to messages with the class of AA_CLASS_FILE.
type FilePermission uint32

const (
 // AA_MAY_EXEC implies that a process has a permission to execute another
 // program. The specific details of the program are not conveyed.
 AA_MAY_EXEC FilePermission = 1 << iota
 // AA_MAY_WRITE implies that a process may write to a file or socket, or
 // may modify directory contents.
 AA_MAY_WRITE
 // AA_MAY_READ implies that a process may read from a file or socket, or
 // may enumerate directory contents.
 AA_MAY_READ
```

// AA_MAY_APPEND implies that a process may open a file in append mode.
AA_MAY_APPEND
// AA_MAY_CREATE implies that a process may create a new file.
AA_MAY_CREATE
// AA_MAY_DELETE implies that a process may delete a file, directory,
// symbolic link or socket.
AA_MAY_DELETE
// AA_MAY_OPEN implies that a process may open a file or directory.
The
// additional presence of AA_MAY_WRITE or AA_MAY_READ grants specific type
// of access.
AA_MAY_OPEN
// AA_MAY_RENAME implies that a process may rename a file.
AA_MAY_RENAME
// AA_MAY_SETATTR implies that a process may modify file attributes.
AA_MAY_SETATTR
// AA_MAY_GETATTR implies that a process may read file attributes.
AA_MAY_GETATTR
// AA_MAY_SETCRED is not used in the kernel.
AA_MAY_SETCRED
// AA_MAY_GETCRED is not used in the kernel.
AA_MAY_GETCRED
// AA_MAY_CHMOD implies that a process may change UNIX file permissions.
AA_MAY_CHMOD
// AA_MAY_CHOWN implies that a process may change file ownership.
AA_MAY_CHOWN
// AA_MAY_CHGRP implies that a process may change the group ownership of a
// file. The C-level macro is not defined in any userspace header but is
// already supported and reported by the kernel.
AA_MAY_CHGRP
// AA_MAY_LOCK implies that a process may perform fcntl locking operations
// on a file.
AA_MAY_LOCK
// AA_EXEC_MMAP implies that a
process may execute code from an page
// memory-mapped from a file.
AA_EXEC_MMAP

// There are additional permissions defined in the kernel but it seems some
// of those are unused and their exact scope and meaning is unclear.

// AA_MAY_LINK implies that a process may create a hard link. Their
// associated file information describes the hard link name, not the
// original file.
AA_MAY_LINK FilePermission = 1 << 18
// AA_MAY_ONEXEC implies that a process may change the apparmor profile on
// the next exec call.
AA_MAY_ONEXEC FilePermission = 1 << 29

```
 // AA_MAY_CHANGE_PROFILE implies that a process may change the apparmor
 // profile on demand.
 AA_MAY_CHANGE_PROFILE FilePermission = 1 << 30
)

const filePermissionMask = (AA_MAY_EXEC | AA_MAY_WRITE | AA_MAY_READ |
 AA_MAY_APPEND | AA_MAY_CREATE | AA_MAY_DELETE | AA_MAY_OPEN |
 AA_MAY_RENAME | AA_MAY_SETATTR | AA_MAY_GETATTR | AA_MAY_SETCRED |
 AA_MAY_GETCRED | AA_MAY_CHMOD | AA_MAY_CHOWN | AA_MAY_CHGRP |
 AA_MAY_LOCK | AA_EXEC_MMAP
 | AA_MAY_LINK | AA_MAY_ONEXEC |
 AA_MAY_CHANGE_PROFILE)

// String returns readable representation of the file permission value.
func (p FilePermission) String() string {
 frags := make([]string, 0, 21)
 if p&AA_MAY_EXEC != 0 {
  frags = append(frags, "execute")
 }
 if p&AA_MAY_WRITE != 0 {
  frags = append(frags, "write")
 }
 if p&AA_MAY_READ != 0 {
  frags = append(frags, "read")
 }
 if p&AA_MAY_APPEND != 0 {
  frags = append(frags, "append")
 }
 if p&AA_MAY_CREATE != 0 {
  frags = append(frags, "create")
 }
 if p&AA_MAY_DELETE != 0 {
  frags = append(frags, "delete")
 }
 if p&AA_MAY_OPEN != 0 {
  frags = append(frags, "open")
 }
 if p&AA_MAY_RENAME != 0 {
  frags = append(frags, "rename")
 }
 if p&AA_MAY_SETATTR != 0 {
  frags = append(frags, "set-attr")
 }
 if p&AA_MAY_GETATTR != 0 {
  frags = append(frags, "get-attr")
 }
 if p&AA_MAY_SETCRED != 0 {
  frags = append(frags, "set-cred")
```

```
 }
 if p&AA_MAY_GETCRED != 0 {
  frags = append(frags, "get-cred")
 }
 if p&AA_MAY_CHMOD
 != 0 {
  frags = append(frags, "change-mode")
 }
 if p&AA_MAY_CHOWN != 0 {
  frags = append(frags, "change-owner")
 }
 if p&AA_MAY_CHGRP != 0 {
  frags = append(frags, "change-group")
 }
 if p&AA_MAY_LOCK != 0 {
  frags = append(frags, "lock")
 }
 if p&AA_EXEC_MMAP != 0 {
  frags = append(frags, "execute-map")
 }
 if p&AA_MAY_LINK != 0 {
  frags = append(frags, "link")
 }
 if p&AA_MAY_ONEXEC != 0 {
  frags = append(frags, "change-profile-on-exec")
 }
 if p&AA_MAY_CHANGE_PROFILE != 0 {
  frags = append(frags, "change-profile")
 }
 if residue := p &^ filePermissionMask; residue != 0 {
  frags = append(frags, fmt.Sprintf("%#x", uint(residue)))
 }
 if len(frags) == 0 {
  return "none"
 }
 return strings.Join(frags, "|")
}

// IsValid returns true if the given file permission contains only known bits set.
func (p FilePermission) IsValid() bool {
 return p & ^filePermissionMask == 0
}
```

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*
*/

package spdx

// From https://spdx.org/licenses/
// data files: https://github.com/spdx/license-list-data
// Version: 3.11 2020-11-25
//
// jq < json/licenses.json '.licenses | .[] | select(.isOsiApproved == true) | .licenseId' | sort | sed -e 's/$/,/'
//
//nolint:unused
var osi = []string{
 "0BSD",
 "AAL",
 "AFL-1.1",
 "AFL-1.2",
 "AFL-2.0",
 "AFL-2.1",
 "AFL-3.0",
 "AGPL-3.0",
 "AGPL-3.0-only",
 "AGPL-3.0-or-later",
 "Apache-1.1",
 "Apache-2.0",
 "APL-1.0",
 "APSL-1.0",
 "APSL-1.1",
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"APSL-1.2",
"APSL-2.0",
"Artistic-1.0",
"Artistic-1.0-cl8",
"Artistic-1.0-Perl",
"Artistic-2.0",
"BSD-1-Clause",
"BSD-2-Clause",
"BSD-2-Clause-Patent",
"BSD-3-Clause",
"BSD-3-Clause-LBNL",
"BSL-1.0",
"CAL-1.0",
"CAL-1.0-Combined-Work-Exception",
"CATOSL-1.1",
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"CECILL-2.1",
"CNRI-Python",
"CPAL-1.0",
"CPL-1.0",
"CUA-OPL-1.0",
"ECL-1.0",
"ECL-2.0",
"EFL-1.0",
"EFL-2.0",
"Entessa",
"EPL-1.0",
"EPL-2.0",
"EUDatagrid",
"EUPL-1.1",
"EUPL-1.2",
"Fair",
"Frameworx-1.0",
"GPL-2.0",
"GPL-2.0+",
"GPL-2.0-only",
"GPL-2.0-or-later",
"GPL-3.0",
"GPL-3.0+",
"GPL-3.0-only",
"GPL-3.0-or-later",
"GPL-3.0-with-GCC-exception",
"HPND",
"Intel",
"IPA",
"IPL-1.0",
"ISC",
"LGPL-2.0",

"LGPL-2.0+",
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"LGPL-2.1-or-later",
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"LGPL-3.0-only",
"LGPL-3.0-or-later",
"LiLiQ-P-1.1",
"LiLiQ-R-1.1",
"LiLiQ-Rplus-1.1",
"LPL-1.0",
"LPL-1.02",
"LPPL-1.3c",
"MirOS",
"MIT",
"MIT-0",
"Motosoto",
"MPL-1.0",
"MPL-1.1",
"MPL-2.0",
"MPL-2.0-no-copyleft-exception",
"MS-PL",
"MS-RL",
"MulanPSL-2.0",
"Multics",
"NASA-1.3",
"Naumen",
"NCSA",
"NGPL",
"Nokia",
"NPOSL-3.0",
"NTP",
"OCLC-2.0",
"OFL-1.1",
"OFL-1.1-no-RFN",
"OFL-1.1-RFN",
"OGTSL",
"OLDAP-2.8",
"OSET-PL-2.1",
"OSL-1.0",
"OSL-2.0",
"OSL-2.1",
"OSL-3.0",
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- javaee_web_services_1_3.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
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- jsp_2_3.xsd
- web-app_3_1.xsd
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- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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 - javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.5065 fluent-bit 4.0.5

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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[src/readfloat.c]

strtod implementation.
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The original code can be found in https://github.com/mattn/strtod

[src/fmt_fp.c]

The code in this function was inspired from Fred Bayer's pdouble.c.
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Dave Hylands

The original code can be found in https://github.com/dhylands/format-float

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* Version 1.1 1 Aug 2013 Mark Adler
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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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  include "stdbool.h"
  include "unistd.h"

  untrusted {
    int ocall_open([in, string]const char *pathname, int flags,
                   bool has_mode, unsigned mode);
    int ocall_openat(int dirfd,
                     [in, string]const char *pathname, int flags,
                     bool has_mode, unsigned mode);
    int ocall_close(int fd);
    ssize_t ocall_read(int fd, [out, size=read_size]void *buf,
                       size_t read_size);
    off_t ocall_lseek(int fd, off_t offset, int whence);
```

```
    int ocall_ftruncate(int fd, off_t length);
    int ocall_fsync(int fd);
    int ocall_fdatasync(int fd);
    int ocall_isatty(int fd);
    void ocall_fdopendir(int fd, [out]void **p_dirp);
    /* implementation related to multiple thread */
    void *ocall_readdir([user_check]void
*dirp);
    void ocall_rewinddir([user_check]void *dirp);
    void ocall_seekdir([user_check]void *dirp, long loc);
    long ocall_telldir([user_check]void *dirp);
    int ocall_closedir([user_check]void *dirp);

    int ocall_stat([in, string]const char *pathname,
                [out, size=buf_len]void *buf,
                unsigned int buf_len);
    int ocall_fstat(int fd, [out, size=buf_len]void *buf,
                 unsigned int buf_len);
    int ocall_fstatat(int dirfd, [in, string]const char *pathname,
                  [out, size=buf_len]void *buf,
                  unsigned int buf_len, int flags);

    int ocall_mkdirat(int dirfd, [in, string]const char *pathname,
                  unsigned mode);
    int ocall_link([in, string] const char *oldpath,
                [in, string] const char *newpath);
    int ocall_linkat(int olddirfd, [in, string]const char
*oldpath,
                  int newdirfd, [in, string]const char *newpath,
                  int flags);
    int ocall_unlinkat(int dirfd, [in, string]const char *pathname,
                   int flags);
    ssize_t ocall_readlink([in, string]const char *pathname,
                      [out, size=bufsiz]char *buf,
                      size_t bufsiz);
    ssize_t ocall_readlinkat(int dirfd,
                        [in, string]const char *pathname,
                        [out, size=bufsiz]char *buf,
                        size_t bufsiz);
    int ocall_renameat(int olddirfd,
                   [in, string]const char *oldpath,
                   int newdirfd,
                   [in, string]const char *newpath);
    int ocall_symlinkat([in ,string]const char *target,
                    int newdirfd,
                    [in, string]const char *linkpath);
```

```
int ocall_ioctl(int fd, unsigned long request,
                [out, size=arg_len]void *arg,
                unsigned int arg_len);
 int ocall_fcntl(int fd, int cmd);
 int ocall_fcntl_long(int fd, int cmd, long arg);

 int ocall_realpath([in, string]const char *path,
                  [out, size=buf_len]char *buf,
                  unsigned int buf_len);
 int ocall_posix_fallocate(int fd, off_t offset, off_t len);
 int ocall_poll([in, out, size=fds_len]void *fds, unsigned nfds,
               int timeout, unsigned int fds_len);

 int ocall_getopt(int argc,
                [in, size=argv_buf_len]char *argv_buf,
                unsigned int argv_buf_len,
                [in, string]const char *optstring);
 ssize_t ocall_readv(int fd,
                   [in, out, size=buf_size]char *iov_buf,
                   unsigned int buf_size, int iovcnt,

                bool has_offset, off_t offset);
 ssize_t ocall_writev(int fd,
                    [in, size=buf_size]char *iov_buf,
                    unsigned int buf_size, int iovcnt,
                    bool has_offset, off_t offset);

 /* time clock */
 int ocall_clock_gettime(unsigned clock_id,
                      [out, size=tp_buf_size]void *tp_buf,
                      unsigned int tp_buf_size);
 int ocall_clock_getres(int clock_id,
                     [out, size=res_buf_size]void *res_buf,
                     unsigned int res_buf_size);
 int ocall_utimensat(int dirfd, [in, string]const char *pathname,
                   [in, size=times_buf_size]const void *times_buf,
                   unsigned int times_buf_size, int flags);
 int ocall_futimens(int fd, [in, size=times_buf_size]const void *times_buf,
                  unsigned int times_buf_size);
  int ocall_clock_nanosleep(unsigned clock_id, int flags,
                        [in, size=req_buf_size]const void *req_buf,
                        unsigned int req_buf_size,
                        [out, size=rem_buf_size]void *rem_buf,
                        unsigned int rem_buf_size);

 int ocall_raise(int sig);

 int ocall_sched_yield();
```

```
    int ocall_pthread_rwlock_init([out]void **rwlock, [user_check]void *attr);
    int ocall_pthread_rwlock_destroy([user_check]void *rwlock);
    int ocall_pthread_rwlock_rdlock([user_check]void *rwlock);
    int ocall_pthread_rwlock_wrlock([user_check]void *rwlock);
    int ocall_pthread_rwlock_unlock([user_check]void *rwlock);

    int ocall_get_errno();

    /* sockets */
    int ocall_accept(int sockfd, [in, size=addr_size]void *addr,
            [in, size=4] uint32_t *addrlen, uint32_t addr_size);
    int ocall_bind(int sockfd,
[in, size=addrlen]const void *addr,
            uint32_t addrlen);
    int ocall_connect(int sockfd, [in, size=addrlen]void *addr, uint32_t addrlen);
    int ocall_getsockname(int sockfd, [out, size=addr_size]void *addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    int ocall_getpeername(int sockfd, [out, size=addr_size]void *addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    int ocall_getsockopt(int sockfd, int level, int optname,
                    [out, size=val_buf_size]void *val_buf,
                    unsigned int val_buf_size,
                    [in, out, size=4]void *len_buf);
    int ocall_listen(int sockfd, int backlog);
    int ocall_recv(int sockfd, [out, size=len]void *buf, size_t len, int flags);
    ssize_t ocall_recvfrom(int sockfd, [out, size=len]void *buf, size_t len, int flags,
                    [out,
size=addr_size]void *src_addr,
                    [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    ssize_t ocall_recvmsg(int sockfd,
                    [in, out, size=msg_buf_size]void *msg_buf,
                    unsigned int msg_buf_size,
                    int flags);
    int ocall_send(int sockfd, [in, size=len]const void *buf, size_t len, int flags);
    ssize_t ocall_sendto(int sockfd, [in, size=len]const void *buf, size_t len, int flags,
                    [in, size=addrlen]void *dest_addr, uint32_t addrlen);
    ssize_t ocall_sendmsg(int sockfd,
                    [in, size=msg_buf_size]void *msg_buf,
                    unsigned int msg_buf_size,
                    int flags);
    int ocall_setsockopt(int sockfd, int level, int optname,
                    [in, size=optlen]void *optval,
                    unsigned int optlen);
    int
ocall_shutdown(int sockfd, int how);
    int ocall_socket(int domain, int type, int protocol);
  };
```

```
};
#########################################################################
# LICENSE.snappy covers files: snappy.c, snappy.h, snappy_compat.h   #
# originally retrieved from http://github.com/andikleen/snappy-c     #
# git revision 8015f2d28739b9a6076ebaa6c53fe27bc238d219              #
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```

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set style histogram errorbars gap 2 lw 1
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parts of src/rdmurmur2.c: git@github.com:abrandoned/murmur2.git

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 LicenseIdentifier string `json:"licenseId"`

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 // Cardinality: conditional (mandatory, one) if there is a
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 ExtractedText string `json:"extractedText"`

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 LicenseName string `json:"name,omitempty"`

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 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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```
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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.
type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
 License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
 optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

Originals:
  https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
  https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
  * Renamed files from civil* to localtime*.
  * Package changed from civil to toml.
  * 'Local' prefix added to all structs.
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https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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1.5070 sha1cd 0.4.0

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1.5071 paramiko 4.0.0

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1.5072 python-certifi 2025.08.03

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.5073 prometheus-client 1.23.0

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Appendix: How to Apply These Terms to Your New Programs

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey

the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the
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Of course, the
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program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

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program `Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

That's all there is to it!

The "Artistic License"

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The End

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Version 2, June 1991

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[This is the first released version of the library GPL. It is
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Preamble

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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This option is useful when you wish to copy part of the code of
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5. A program that contains no derivative of any portion of the
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the Library". Such a
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This is the Debian prepackaged version of the Debian Base System
Miscellaneous files. These files were written by Ian Murdock
<imurdock@debian.org> and Bruce Perens <bruce@pixar.com>.

This package was first put together by Bruce Perens <Bruce@Pixar.com>,
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1.5077 cryptography 45.0.6

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1.5078 tmp 0.2.4

1.5078.1 Available under license :

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1.5079 form-data 4.0.4

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1.5080 perl-base 5.34.0-3ubuntu1.5

1.5080.1 Available under license :

```
---
abstract: 'Build and install Perl modules'
author:
 - 'Ken Williams <kwilliams@cpan.org>'
 - "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-
build@perl.org>."
build_requires:
 File::Temp: 0.15
 Test::Harness: 3.16
 Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Module-Build
resources:
 MailingList: mailto:module-build@perl.org
```

license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks

```
 or menu items--whatever suits your
program.

You should also get your employer (if you work as a programmer) or your
school, if any, to sign a "copyright disclaimer" for the program, if
necessary.  Here a sample; alter the names:

 Yoyodyne, Inc., hereby disclaims all copyright interest in the
 program `Gnomovision' (a program to direct compilers to make passes
 at assemblers) written by James Hacker.

 <signature of Moe Ghoul>, 1 April 1989
 Moe Ghoul, President of Vice

That's all there is to it!
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the
C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match
reality.

Optionally you can pass the C<--now> option to check they are at the current
year. This isn't checked by default, so that it doesn't fail for people
working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();
my $gh_readme_year;
```

```
# git on windows renders symbolic links as a file containing
# the file linked to
if (-e "../.github/README.md" && -s "../.github/README.md" > 80)
{
 $gh_readme_year = readme_year(".github/README.md");
}


# Check that both copyright dates are up-to-date, but
 only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current year';
 is $readme_year, $current_year, 'README copyright includes current year';
 if ($gh_readme_year)
 {
   is ($gh_readme_year, $current_year,
       '.github/README.md copyright includes current year');
 }
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
 if ($gh_readme_year)
 {
   is ($gh_readme_year, $v_year,
       '.github/README.md and perl -v copyright dates match');
 }
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{
 my $file = shift || "README";

 open my $readme, '<', "../$file" or die "Opening $file failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
  my $copyright_msg = <$readme>;
```

```
 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in $file copyright message '$copyright_msg'";

 $year;
}


sub v_year
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

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terms.

To do so, attach the following notices to the program.
It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
"copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this
when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) 19xx name of author
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.

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program `Gnomovision' (a program to direct compilers to make passes
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;

```
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
 skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
 my $current_year = (gmtime)[5] + 1900;
 is $v_year, $current_year, 'perl -v copyright includes current
 year';
 is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
 is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;


sub readme_year
# returns the latest copyright year from the top-level README file
{

 open my $readme, '<', '../README' or die "Opening README failed: $!";

 # The copyright message is the first paragraph:
 local $/ = '';
 my $copyright_msg = <$readme>;

 my ($year) = $copyright_msg =~ /.*\b(\d{4,})/s
    or die "Year not found in README copyright message '$copyright_msg'";

 $year;
}


sub v_year
```

```
# returns the latest copyright year shown in perl -v
{

 my $output = runperl switches => ['-v'];
 my ($year) = $output =~ /copyright 1987.*\b(\d{4,})/i
    or die "Copyright statement not found in perl -v output '$output'";

 $year;
}
```

[name]
Uppercase license text

[input]
=head1 Uppercase License

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[output]
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.IX Header "Uppercase License"
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program `Gnomovision' (a program to direct compilers
to make passes
at assemblers) written by James Hacker.

<signature of Moe Ghoul>, 1 April 1989
Moe Ghoul, President of Vice

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Upstream-Name: perl
Source: https://www.cpan.org/src/5.0/
Comment:
This package was initially debianized by Brendan O'Dea <bod@debian.org>
on Thu, 17 Aug 2000 16:10:54 +1000. The packaging has since been modified
by various others, including Dominic Hargreaves <dom@earth.li> and Niko
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cpan/podlators/t/docs/synopsis.t
cpan/podlators/t/lib/Test/RRA.pm
cpan/podlators/t/lib/Test/RRA/Config.pm
cpan/podlators/t/style/critic.t
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cpan/podlators/t/docs/spdx-license.t
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<signature of Ty Coon>, 1 April 1989
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[name]
Uppercase license text

[input]
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1.5081 activation-api 1.2.2

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1.5084 zlint 3.6.5

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1.5087 protobuf-go 1.36.7

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1.5088 x-text 0.28.0

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1.5089 golang 1.24.6

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
```

```
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
```

```
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.5090 nfs-utils 1:2.6.4-3ubuntu5.1

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
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package spec
```

```
import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.5092 cel-go 0.26.0

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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1.5093 stdlib go1.24.6

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }
```

```
  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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regexp.c and regexp.h from https://github.com/ccxvii/minilibs sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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parts of src/rdfnv1a.c: http://www.isthe.com/chongo/src/fnv/hash_32a.c

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librdkafka - Apache Kafka C driver library

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enclave {

```
include "stdint.h"
include "stdbool.h"
include "unistd.h"

untrusted {
    int ocall_open([in, string]const char *pathname, int flags,
                bool has_mode, unsigned mode);
    int ocall_openat(int dirfd,
                 [in, string]const char *pathname, int flags,
                 bool has_mode, unsigned mode);
    int ocall_close(int fd);
    ssize_t ocall_read(int fd, [out, size=read_size]void *buf,
                  size_t read_size);
    off_t ocall_lseek(int fd, off_t offset, int whence);
    int ocall_ftruncate(int fd, off_t length);
    int ocall_fsync(int fd);
    int ocall_fdatasync(int fd);
    int ocall_isatty(int fd);
    void ocall_fdopendir(int fd, [out]void **p_dirp);
    /* implementation related to multiple thread */
    void *ocall_readdir([user_check]void
*dirp);
    void ocall_rewinddir([user_check]void *dirp);
    void ocall_seekdir([user_check]void *dirp, long loc);
    long ocall_telldir([user_check]void *dirp);
    int ocall_closedir([user_check]void *dirp);

    int ocall_stat([in, string]const char *pathname,
                [out, size=buf_len]void *buf,
                unsigned int buf_len);
    int ocall_fstat(int fd, [out, size=buf_len]void *buf,
                 unsigned int buf_len);
    int ocall_fstatat(int dirfd, [in, string]const char *pathname,
                  [out, size=buf_len]void *buf,
                  unsigned int buf_len, int flags);

    int ocall_mkdirat(int dirfd, [in, string]const char *pathname,
                  unsigned mode);
    int ocall_link([in, string] const char *oldpath,
                [in, string] const char *newpath);
    int ocall_linkat(int olddirfd, [in, string]const char
*oldpath,
                  int newdirfd, [in, string]const char *newpath,
                  int flags);
    int ocall_unlinkat(int dirfd, [in, string]const char *pathname,
                   int flags);
    ssize_t ocall_readlink([in, string]const char *pathname,
                      [out, size=bufsiz]char *buf,
```

```
                    size_t bufsiz);
ssize_t ocall_readlinkat(int dirfd,
                     [in, string]const char *pathname,
                     [out, size=bufsiz]char *buf,
                     size_t bufsiz);
int ocall_renameat(int olddirfd,
                 [in, string]const char *oldpath,
                 int newdirfd,
                 [in, string]const char *newpath);
int ocall_symlinkat([in ,string]const char *target,
                  int newdirfd,
                  [in, string]const char *linkpath);


int ocall_ioctl(int fd, unsigned long request,
               [out, size=arg_len]void *arg,
               unsigned int arg_len);
int ocall_fcntl(int fd, int cmd);
int ocall_fcntl_long(int fd, int cmd, long arg);

int ocall_realpath([in, string]const char *path,
                 [out, size=buf_len]char *buf,
                 unsigned int buf_len);
int ocall_posix_fallocate(int fd, off_t offset, off_t len);
int ocall_poll([in, out, size=fds_len]void *fds, unsigned nfds,
              int timeout, unsigned int fds_len);

int ocall_getopt(int argc,
               [in, size=argv_buf_len]char *argv_buf,
               unsigned int argv_buf_len,
               [in, string]const char *optstring);
ssize_t ocall_readv(int fd,
                  [in, out, size=buf_size]char *iov_buf,
                  unsigned int buf_size, int iovcnt,

               bool has_offset, off_t offset);
ssize_t ocall_writev(int fd,
                   [in, size=buf_size]char *iov_buf,
                   unsigned int buf_size, int iovcnt,
                   bool has_offset, off_t offset);

/* time clock */
int ocall_clock_gettime(unsigned clock_id,
                     [out, size=tp_buf_size]void *tp_buf,
                     unsigned int tp_buf_size);
int ocall_clock_getres(int clock_id,
                    [out, size=res_buf_size]void *res_buf,
                    unsigned int res_buf_size);
```

```
    int ocall_utimensat(int dirfd, [in, string]const char *pathname,
                        [in, size=times_buf_size]const void *times_buf,
                        unsigned int times_buf_size, int flags);
    int ocall_futimens(int fd, [in, size=times_buf_size]const void *times_buf,
                       unsigned int times_buf_size);
     int ocall_clock_nanosleep(unsigned clock_id, int flags,
                               [in, size=req_buf_size]const void *req_buf,
                               unsigned int req_buf_size,
                               [out, size=rem_buf_size]void *rem_buf,
                               unsigned int rem_buf_size);

    int ocall_raise(int sig);

    int ocall_sched_yield();

    int ocall_pthread_rwlock_init([out]void **rwlock, [user_check]void *attr);
    int ocall_pthread_rwlock_destroy([user_check]void *rwlock);
    int ocall_pthread_rwlock_rdlock([user_check]void *rwlock);
    int ocall_pthread_rwlock_wrlock([user_check]void *rwlock);
    int ocall_pthread_rwlock_unlock([user_check]void *rwlock);

    int ocall_get_errno();

    /* sockets */
    int ocall_accept(int sockfd, [in, size=addr_size]void *addr,
             [in, size=4] uint32_t *addrlen, uint32_t addr_size);
    int ocall_bind(int sockfd,
[in, size=addrlen]const void *addr,
            uint32_t addrlen);
    int ocall_connect(int sockfd, [in, size=addrlen]void *addr, uint32_t addrlen);
    int ocall_getsockname(int sockfd, [out, size=addr_size]void *addr,
                          [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    int ocall_getpeername(int sockfd, [out, size=addr_size]void *addr,
                          [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    int ocall_getsockopt(int sockfd, int level, int optname,
                         [out, size=val_buf_size]void *val_buf,
                         unsigned int val_buf_size,
                         [in, out, size=4]void *len_buf);
    int ocall_listen(int sockfd, int backlog);
    int ocall_recv(int sockfd, [out, size=len]void *buf, size_t len, int flags);
    ssize_t ocall_recvfrom(int sockfd, [out, size=len]void *buf, size_t len, int flags,
                           [out,
size=addr_size]void *src_addr,
                           [in, out, size=4]uint32_t *addrlen, uint32_t addr_size);
    ssize_t ocall_recvmsg(int sockfd,
                          [in, out, size=msg_buf_size]void *msg_buf,
                          unsigned int msg_buf_size,
                          int flags);
```

```
    int ocall_send(int sockfd, [in, size=len]const void *buf, size_t len, int flags);
    ssize_t ocall_sendto(int sockfd, [in, size=len]const void *buf, size_t len, int flags,
                    [in, size=addrlen]void *dest_addr, uint32_t addrlen);
    ssize_t ocall_sendmsg(int sockfd,
                     [in, size=msg_buf_size]void *msg_buf,
                     unsigned int msg_buf_size,
                     int flags);
    int ocall_setsockopt(int sockfd, int level, int optname,
                    [in, size=optlen]void *optval,
                    unsigned int optlen);
    int
 ocall_shutdown(int sockfd, int how);
    int ocall_socket(int domain, int type, int protocol);
  };
};
```

```
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mruby-set

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at revision 3a0bb77429bd3a61596f5e8a3172445844342120

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```
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*
* IP-address/hostname to country converter.
*
* Problem; you want to know where IP a.b.c.d is located.
*
* Use ares_gethostbyname ("d.c.b.a.zz.countries.nerd.dk")
* and get the CNAME (host->h_name). Result will be:
*   CNAME = zz<CC>.countries.nerd.dk with address 127.0.x.y (ver 1) or
*   CNAME = <a.b.c.d>.zz.countries.nerd.dk with address 127.0.x.y (ver 2)
*
* The 2 letter country code is in <CC> and the ISO-3166 country
* number is in x.y (number = x*256 + y). Version 2 of the protocol is missing
```

* the <CC> number.
*
* Ref: http://countries.nerd.dk/more.html
*
* Written by G. Vanem <gvanem@broadpark.no> 2006, 2007
*
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* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_getsock.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_fds.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_free_data.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_library_init.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_txt_reply.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_set_servers.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_query.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_send.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_mx_reply.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_cancel.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_ptr_reply.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_expand_string.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_expand_name.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_process.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_gethostbyname.3
*
 /c-ares-1-8-0-tar/c-ares-1.8.0/ares_search.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_timeout.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_free_hostent.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_naptr_reply.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_gethostbyname_file.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_strerror.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_dup.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_aaaa_reply.3

* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_destroy_options.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_library_cleanup.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_getnameinfo.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_mkquery.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_save_options.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_destroy.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_srv_reply.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_a_reply.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_init.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_version.3
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_ns_reply.3
*
/c-ares-1-8-0-tar/c-ares-1.8.0/ares_free_string.3
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* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_iphlpapi.h
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* /c-ares-1-8-0-tar/c-ares-1.8.0/ahost.1
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* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_fds.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_llist.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares__read_line.c
*
 /c-ares-1-8-0-tar/c-ares-1.8.0/ares_strcasecmp.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_expand_string.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_getenv.h
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_strdup.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_query.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_strcasecmp.h
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_free_hostent.c

* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_mkquery.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_strdup.h
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_ns_reply.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_llist.h
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_writev.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_search.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_gethostbyaddr.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_ptr_reply.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_parse_a_reply.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_timeout.c
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_writev.h
* /c-ares-1-8-0-tar/c-ares-1.8.0/ares_send.c
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/*
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*
*/
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*
* Standard UNIX getopt function. Code is from BSD.
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* POSSIBILITY OF SUCH DAMAGE.
*/

Found in
 path(s):
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1.5105 google-cloud-go-trace 1.11.4

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
```

```
  _ = resp
 }
}
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package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &procurementpb.UpdateLicensePoolRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
}
resp, err := c.UpdateLicensePool(ctx, req)
if err != nil {
 // TODO: Handle error.
}
//
TODO: Use resp.
_ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := procurement.NewLicenseManagementClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &longrunningpb.GetOperationRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
}
resp, err := c.GetOperation(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

```
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
```

```
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
```

```
ExampleLicensesClient_SetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
```

_ = resp
}
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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete          []gax.CallOption
 Get             []gax.CallOption
 GetIamPolicy    []gax.CallOption
 Insert          []gax.CallOption
```

```
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
```

```
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
```

```
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.

```
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf,
 resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
```

```
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
```

```
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
  {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
```

```
 req.MaxResults = proto.Uint32(uint32(pageSize))
}
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, "", err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
 if err != nil {
  return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
```

```
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
```

```
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
```

```
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2025 Google LLC
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//     http://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
```

```
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
```

```
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
```

```
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
```

```
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
```

0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
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0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
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0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,

```
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
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 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72,
 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
```

```
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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//     https://www.apache.org/licenses/LICENSE-2.0
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package procurement

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"

 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 gtransport
 "google.golang.org/api/transport/grpc"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicenseManagementClientHook clientHook

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
type LicenseManagementCallOptions struct {
 GetLicensePool         []gax.CallOption
 UpdateLicensePool      []gax.CallOption
 Assign                 []gax.CallOption
 Unassign               []gax.CallOption
 EnumerateLicensedUsers []gax.CallOption
 GetOperation           []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443")
,
  internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableJwtWithScope(),
  internaloption.EnableNewAuthLibrary(),
```

```
  option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
   grpc.MaxCallRecvMsgSize(math.MaxInt32))),
 }
}

func
 defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
 return &LicenseManagementCallOptions{
  GetLicensePool:        []gax.CallOption{},
  UpdateLicensePool:     []gax.CallOption{},
  Assign:                []gax.CallOption{},
  Unassign:              []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:          []gax.CallOption{},
 }
}

func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
 return
 &LicenseManagementCallOptions{
  GetLicensePool:        []gax.CallOption{},
  UpdateLicensePool:     []gax.CallOption{},
  Assign:                []gax.CallOption{},
  Unassign:              []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:          []gax.CallOption{},
 }
}

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce
Consumer Procurement API.
type internalLicenseManagementClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
 Unassign(context.Context, *procurementpb.UnassignRequest,
 ...gax.CallOption) (*procurementpb.UnassignResponse, error)
 EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
 GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}
```

```
// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseManagementClient

 // The call options for this service.
 CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient)
 UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption)
(*procurementpb.LicensePool, error) {
```

```
 return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts
...gax.CallOption) (*procurementpb.AssignResponse, error) {
 return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts
...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 return c.internalClient.EnumerateLicensedUsers(ctx,
 req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 return c.internalClient.GetOperation(ctx, req, opts...)
}

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API
over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementGRPCClient struct {
 // Connection pool of gRPC connections to the service.
 connPool gtransport.ConnPool

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 // The gRPC API client.
 licenseManagementClient procurementpb.LicenseManagementServiceClient

 operationsClient longrunningpb.OperationsClient

 //
 The x-goog-* metadata to be sent with each request.
 xGoogHeaders []string
```

```
 logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
 clientOpts := defaultLicenseManagementGRPCClientOptions()
 if newLicenseManagementClientHook != nil {
  hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{})
  if err != nil {
   return nil, err
  }
  clientOpts = append(clientOpts, hookOpts...)
 }

 connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
 if err != nil {
  return nil, err
 }
 client := LicenseManagementClient{CallOptions: defaultLicenseManagementCallOptions()}

 c := &licenseManagementGRPCClient{
  connPool:
     connPool,
  licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
  CallOptions:            &client.CallOptions,
  logger:                 internaloption.GetLogger(opts),
  operationsClient:       longrunningpb.NewOperationsClient(connPool),
 }
 c.setGoogleClientInfo()

 client.internalClient = c

 return &client, nil
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
 return c.connPool.Conn()
}
```

```
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
 grpc.Version)
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
 return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicenseManagementClient, error) {
 clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseManagementRESTCallOptions()
```

```
 c := &licenseManagementRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAI
N"),
  internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
```

```
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
 return nil
}
func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
  return err
 }, opts...)
 if err != nil {
  return
 nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}
```

```
func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
 req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 var resp *procurementpb.AssignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds
 = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 var resp *procurementpb.UnassignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOp
```

```
tions).EnumerateLicensedUsers)],
 opts...)
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
  if pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
  } else if pageSize != 0 {
   req.PageSize = int32(pageSize)
  }
  err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   var err error
   resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
   return err
  }, opts...)
  if err != nil {
   return nil, "", err
  }

  it.Response = resp
  return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
 }
 fetch := func(pageSize int,
 pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetPageSize())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 var resp *longrunningpb.Operation
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  var err error
  resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.LicensePool{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
 opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 body := req.GetLicensePool()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
 if req.GetUpdateMask() != nil {
  field, err := protojson.Marshal(req.GetUpdateMask())
  if err != nil {
   return nil, err
  }
```

```
  params.Add("updateMask", string(field[1:len(field)-1]))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers
 := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.LicensePool{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
```

```
 context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp
 := &procurementpb.AssignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
 return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return
 nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.UnassignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(),
 bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
```

```
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
  if
 pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
  } else if pageSize != 0 {
   req.PageSize = int32(pageSize)
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

  params := url.Values{}
  params.Add("$alt", "json;enum-encoding=int")
  if req.GetPageSize() != 0 {
   params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
  }
```

```
 if req.GetPageToken() != "" {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
```

```
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
 *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &longrunningpb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
  if err != nil {
   return err
  }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
```

```
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)
```

```
const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
```

```
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
```

```
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string
 {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
 accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.P
ermission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
```

```
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
 0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
```

0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
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0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
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0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
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0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
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0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,

```
 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
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 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
 0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
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 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
 0x61, 0x67,
 0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}
```

```
func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
 if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
 = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
```

```
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
```

```
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
```

```
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
```

```
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
```

```
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
```

```
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
```

```
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}
```

```
// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
```

```
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
```

```
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
```

```
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo()
 == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}
```

```
func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 //
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}
```

```
func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
```

```
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}
```

```
func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
```

```
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
```

```
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f,
 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x64,
 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
```

0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

```
var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                     // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                   // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
```

```
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
```

```
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
```

```
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
```

```
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
```

```
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
```

```
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
```

```
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}
```

```
var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
   Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
```

```
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close()
 error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}
```

```
//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx,
 req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
```

```
 logger *slog.Logger
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
```

```
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
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Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
```

```
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified
 resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
```

```
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.5106 thanos-io-promql-engine 0.0.0-20250522103302-dd83bd8fdb50

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1.5107 go-stdlib 1.1.0

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1.5110 github.com/dgryski/go-metro 0.0.0-20250106013310-edb8663e5e33

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1.5113 fastjson 1.5.1

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1.5114 github.com/baidubce/bce-sdk-go 0.9.230

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1.5115 github.com/tjhop/slog-gokit 0.1.4

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1.5116 cloud.google.com/go/auth 0.15.1-0.20250317171031-671eed979bfd

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//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
```

```
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
```

```
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
```

```
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
```

```
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
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 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
```

```
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
```

```
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
```

```
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
```

```
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}
```

```
// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
```

```
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
```

```
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
```

```
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client
and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf,
resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
```

```
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
```

Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
 {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from
 client and context metadata.
  hds := append(c.xGoogHeaders, "Content-Type", "application/json")
  headers := gax.BuildHeaders(ctx, hds...)
  e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   if settings.Path != "" {
```

```
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
```

```
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
```

```
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
 if err !=
nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
// Copyright 2025 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2025 Google LLC
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// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     http://www.apache.org/licenses/LICENSE-2.0
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// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
```

```
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
```

```
 2:
 "GROUP",
 3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
```

```
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
```

```
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
```

```
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
```

```
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54,
 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
```

```
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72,
 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
```

```
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// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request
struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
}
resp,
err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
// Copyright 2025 Google LLC
//
```

```
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"

 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 gtransport
 "google.golang.org/api/transport/grpc"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicenseManagementClientHook clientHook

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
type LicenseManagementCallOptions struct {
 GetLicensePool         []gax.CallOption
 UpdateLicensePool      []gax.CallOption
 Assign                 []gax.CallOption
 Unassign               []gax.CallOption
 EnumerateLicensedUsers []gax.CallOption
```

```
 GetOperation          []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443")
,
  internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableJwtWithScope(),
  internaloption.EnableNewAuthLibrary(),
  option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
   grpc.MaxCallRecvMsgSize(math.MaxInt32))),
 }
}

func
 defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
 return &LicenseManagementCallOptions{
  GetLicensePool:        []gax.CallOption{},
  UpdateLicensePool:     []gax.CallOption{},
  Assign:                []gax.CallOption{},
  Unassign:              []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:          []gax.CallOption{},
 }
}

func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
 return
 &LicenseManagementCallOptions{
  GetLicensePool:        []gax.CallOption{},
  UpdateLicensePool:     []gax.CallOption{},
  Assign:                []gax.CallOption{},
  Unassign:              []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:          []gax.CallOption{},
 }
}

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce
Consumer Procurement API.
type internalLicenseManagementClient interface {
 Close() error
 setGoogleClientInfo(...string)
```

```
 Connection() *grpc.ClientConn
 GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
 Unassign(context.Context, *procurementpb.UnassignRequest,
 ...gax.CallOption) (*procurementpb.UnassignResponse, error)
 EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
 GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseManagementClient

 // The call options for this service.
 CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
```

```
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient)
 UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption)
(*procurementpb.LicensePool, error) {
 return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts
...gax.CallOption) (*procurementpb.AssignResponse, error) {
 return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts
...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 return c.internalClient.EnumerateLicensedUsers(ctx,
 req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 return c.internalClient.GetOperation(ctx, req, opts...)
}

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API
over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementGRPCClient struct {
```

```
 // Connection pool of gRPC connections to the service.
 connPool gtransport.ConnPool

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 // The gRPC API client.
 licenseManagementClient procurementpb.LicenseManagementServiceClient

 operationsClient longrunningpb.OperationsClient

 //
 The x-goog-* metadata to be sent with each request.
 xGoogHeaders []string

 logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
 clientOpts := defaultLicenseManagementGRPCClientOptions()
 if newLicenseManagementClientHook != nil {
  hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{})
  if err != nil {
   return nil, err
  }
  clientOpts = append(clientOpts, hookOpts...)
 }

 connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
 if err != nil {
  return nil, err
 }
 client := LicenseManagementClient{CallOptions: defaultLicenseManagementCallOptions()}

 c := &licenseManagementGRPCClient{
  connPool:
      connPool,
  licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
  CallOptions:            &client.CallOptions,
  logger:                 internaloption.GetLogger(opts),
  operationsClient:       longrunningpb.NewOperationsClient(connPool),
 }
 c.setGoogleClientInfo()
```

```
 client.internalClient = c

 return &client, nil
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
 return c.connPool.Conn()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
 grpc.Version)
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
 return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 logger *slog.Logger
```

```
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicenseManagementClient, error) {
 clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseManagementRESTCallOptions()
 c := &licenseManagementRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAI
N"),
  internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
```

```
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
 return nil
}
func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
  return err
 }, opts...)
 if err != nil {
  return
 nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
```

```
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
 req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 var resp *procurementpb.AssignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds
 = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 var resp *procurementpb.UnassignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
  return err
 }, opts...)
```

```
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOp
tions).EnumerateLicensedUsers)],
 opts...)
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
  if pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
  } else if pageSize != 0 {
   req.PageSize = int32(pageSize)
  }
  err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   var err error
   resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
   return err
  }, opts...)
  if err != nil {
   return nil, "", err
  }

  it.Response = resp
  return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
 }
 fetch := func(pageSize int,
 pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
```

```
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetPageSize())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 var resp *longrunningpb.Operation
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  var err error
  resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.LicensePool{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
 opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 body := req.GetLicensePool()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

params := url.Values{}
params.Add("$alt", "json;enum-encoding=int")
if req.GetUpdateMask() != nil {
 field, err := protojson.Marshal(req.GetUpdateMask())
 if err != nil {
  return nil, err
 }
 params.Add("updateMask", string(field[1:len(field)-1]))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers
:= gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
 if err != nil {
  return err
 }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
 context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp
 := &procurementpb.AssignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
```

```
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return
 nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.UnassignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(),
 bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
  if
 pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
```

```
 } else if pageSize != 0 {
  req.PageSize = int32(pageSize)
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
 if req.GetPageSize() != 0 {
  params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
 }
 if req.GetPageToken() != "" {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
```

```
 return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
 }

 fetch := func(pageSize int, pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetPageSize())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
 *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &longrunningpb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
```

```
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
 "context"
```

```
 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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// versions:
```

```
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
```

```
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                    1,
  "GROUP":                   2,
  "EVERYONE":                3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)
```

```
// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string
 {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
```

```
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
 accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.P
ermission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}
```

```
func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
```

```
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
 0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
 0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
 0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
 0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
 0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
 0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
 0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
 0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
 0x4e,
 0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
 0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
 0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
 0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
 0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
 0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
```

```
 0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
 0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
 0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
 0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
 0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
 0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
 0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
 0x61, 0x67,
 0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
```

```
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
 if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
 = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)
```

```
const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
```

```
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}
```

```
func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
```

```
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
```

```
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
```

```
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
```

```
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}
```

```
func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}
```

```
func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
```

```
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}
```

```
// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo()
 == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}
```

```
// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 //
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}
```

```
func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
```

```
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
```

```
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f,
 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
```

0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
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0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
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0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,

0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,
0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x12, 0x33, 0x0a, 0x13, 0x74, 0x6f,
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0x74, 0x18, 0x04, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x11, 0x74, 0x6f,
0x74, 0x61, 0x6c, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e,
0x74, 0x3a,
0x9a, 0x01, 0xea, 0x41, 0x96, 0x01, 0x0a, 0x3b, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f,
0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61,
0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50,
0x6f, 0x6f, 0x6c, 0x12, 0x3c, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f,
0x75, 0x6e, 0x74, 0x73, 0x2f, 0x7b, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x5f, 0x61, 0x63,
0x63, 0x6f, 0x75, 0x6e, 0x74, 0x7d, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x7b, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x7d, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f,
0x6c, 0x2a, 0x0c, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x73, 0x32,
0x0b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x30, 0x0a, 0x15,
0x47, 0x65, 0x74,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x52, 0x65,
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0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x2c, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,
0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67,
0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f, 0x2a, 0x2f, 0x6f, 0x72, 0x64, 0x65, 0x72,
0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d,
0x3a, 0x75, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x92, 0x02, 0x0a, 0x16, 0x45, 0x6e,
0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
0x73, 0x65, 0x72, 0x73, 0x12, 0x4c, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c,
0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,
0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e,
0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x1a, 0x4d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75,
0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e,
0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x52, 0x65, 0x73, 0x70, 0x6f, 0x6e, 0x73,
0x65, 0x22, 0x5b, 0xda, 0x41, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x82, 0xd3, 0xe4, 0x93,
0x02, 0x4c, 0x12, 0x4a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x3d,
0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73, 0x2f,
0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,

```
 0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
 0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,
 0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
 0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
 0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
```

```
 (*UnassignResponse)(nil),                    // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                                  // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                  // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
```

```
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
```

```
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}
```

```
func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
```

```
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
```

```
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}
```

```
func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
```

```
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
   Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
```

```
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close()
 error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
```

```
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx,
 req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

```
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions

 logger *slog.Logger
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
```

```
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}
```

```
 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified
 resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }
```

```
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.5117 github.com/open-telemetry/opentelemetry-collector-contrib/processor/deltatocumulativeprocessor 0.128.0

1.5117.1 Available under license :

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1.5118 github.com/kimmachinegun/automemlimit 0.7.3

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1.5119 prometheus-community-prom-label-proxy 0.11.1

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1.5121 github.com/oracle/oci-go-sdk/v65 65.93.1

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// Java Management Service Fleets API
//
// The APIs for the Fleet Management (https://docs.oracle.com/en-us/iaas/jms/doc/fleet-management.html) feature of Java Management Service to monitor and manage the usage of Java in your enterprise. Use these APIs to manage fleets, configure managed instances to report to fleets, and gain insights into the Java workloads running on these instances by carrying out basic and advanced features.
//

```
package jms

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
```

```
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const
 (
 LicenseTypeOtn        LicenseTypeEnum = "OTN"
 LicenseTypeNftc       LicenseTypeEnum = "NFTC"
 LicenseTypeRestricted LicenseTypeEnum = "RESTRICTED"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "OTN":        LicenseTypeOtn,
 "NFTC":       LicenseTypeNftc,
 "RESTRICTED": LicenseTypeRestricted,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "otn":        LicenseTypeOtn,
 "nftc":       LicenseTypeNftc,
 "restricted": LicenseTypeRestricted,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive
 comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeStandardEdition                    LicenseTypeEnum = "STANDARD_EDITION"
 LicenseTypeEnterpriseEdition                  LicenseTypeEnum = "ENTERPRISE_EDITION"
 LicenseTypeEnterpriseEditionForGpuInfrastructure LicenseTypeEnum =
"ENTERPRISE_EDITION_FOR_GPU_INFRASTRUCTURE"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "STANDARD_EDITION":
                        LicenseTypeStandardEdition,
 "ENTERPRISE_EDITION":                    LicenseTypeEnterpriseEdition,
 "ENTERPRISE_EDITION_FOR_GPU_INFRASTRUCTURE":
LicenseTypeEnterpriseEditionForGpuInfrastructure,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "standard_edition":                      LicenseTypeStandardEdition,
 "enterprise_edition":                    LicenseTypeEnterpriseEdition,
 "enterprise_edition_for_gpu_infrastructure": LicenseTypeEnterpriseEditionForGpuInfrastructure,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}
```

```
// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "STANDARD_EDITION",
  "ENTERPRISE_EDITION",
  "ENTERPRISE_EDITION_FOR_GPU_INFRASTRUCTURE",
 }
}

//
 GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseMetric Overview of product license and resources usage.
type LicenseMetric struct {

 // Total number of product licenses in a particular compartment.
 TotalProductLicenseCount *int `mandatory:"true" json:"totalProductLicenseCount"`

 // Total number of BYOL instances in a particular
 compartment.
 TotalByolInstanceCount *int `mandatory:"true" json:"totalByolInstanceCount"`

 // Total number of License Included (LI) instances in a particular compartment.
 TotalLicenseIncludedInstanceCount *int `mandatory:"true" json:"totalLicenseIncludedInstanceCount"`
```

```
 // Total number of license records that will expire within 90 days in a particular compartment.
 LicenseRecordExpiringSoonCount *int `mandatory:"true" json:"licenseRecordExpiringSoonCount"`
}

func (m LicenseMetric) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseMetric) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseSummary The product license summary.
type ProductLicenseSummary struct {

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
```

where the product license is created.
CompartmentId *string `mandatory:"true" json:"compartmentId"`

// The current product license status.
Status StatusEnum `mandatory:"true" json:"status"`

// The product license unit.
LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

// Specifies whether the vendor is Oracle or a third party.
IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

// License record name
DisplayName *string `mandatory:"true" json:"displayName"`

// Status description for the current product license status.
StatusDescription *string `mandatory:"false" json:"statusDescription"`

// The current product license state.
LifecycleState LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

// The total number of licenses available for the product license, calculated by adding up all the license counts for active license records associated with the product license.
TotalActiveLicenseUnitCount
*int `mandatory:"false" json:"totalActiveLicenseUnitCount"`

// The number of license units consumed. Updated after each allocation run.
TotalLicenseUnitsConsumed *float64 `mandatory:"false" json:"totalLicenseUnitsConsumed"`

// The number of license records associated with the product license.
TotalLicenseRecordCount *int `mandatory:"false" json:"totalLicenseRecordCount"`

// The number of active license records associated with the product license.
ActiveLicenseRecordCount *int `mandatory:"false" json:"activeLicenseRecordCount"`

// Specifies whether or not the product license is oversubscribed.
IsOverSubscribed *bool `mandatory:"false" json:"isOverSubscribed"`

// Specifies if the license unit count is unlimited.
IsUnlimited *bool `mandatory:"false" json:"isUnlimited"`

// The vendor of the ProductLicense
VendorName *string `mandatory:"false" json:"vendorName"`

// The time the product license was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

```
 // The time the product license was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // The images associated with the product license.
 Images []ImageResponse `mandatory:"false" json:"images"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags
 map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m ProductLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(),
 ",")))
 }

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
```

```
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseConsumerCollection Collection of resources which have consumed licenses.
type ProductLicenseConsumerCollection struct {

 // Collection of product license consumers.
 Items []ProductLicenseConsumerSummary `mandatory:"true" json:"items"`
}

func (m ProductLicenseConsumerCollection)
 String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseConsumerCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
```

```
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// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseAcceptanceRecordCollection Contains a list of JavaLicenseAcceptanceRecordSummary objects.
type JavaLicenseAcceptanceRecordCollection struct {

 // List of JavaLicenseAcceptanceRecords.
 Items []JavaLicenseAcceptanceRecordSummary `mandatory:"true" json:"items"`
}

func (m JavaLicenseAcceptanceRecordCollection) String() string {
 return
 common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseAcceptanceRecordCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
```

```
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateJavaLicenseAcceptanceRecordDetails The attributes for updating a Java license acceptance record.
type UpdateJavaLicenseAcceptanceRecordDetails struct {

 // Status of license acceptance.
 LicenseAcceptanceStatus LicenseAcceptanceStatusEnum `mandatory:"true" json:"licenseAcceptanceStatus"`

 // Simple key-value pair that is applied
 without any predefined name, type, or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`. (See Managing Tags and Tag Namespaces
(https://docs.oracle.com/iaas/Content/Tagging/Concepts/understandingfreeformtags.htm).)
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`. (See Understanding Free-form Tags
(https://docs.oracle.com/iaas/Content/Tagging/Tasks/managingtagsandtagnamespaces.htm)).
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateJavaLicenseAcceptanceRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateJavaLicenseAcceptanceRecordDetails)
 ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseAcceptanceStatusEnum(string(m.LicenseAcceptanceStatus)); !ok &&
m.LicenseAcceptanceStatus != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseAcceptanceStatus: %s.
Supported values are: %s.", m.LicenseAcceptanceStatus,
strings.Join(GetLicenseAcceptanceStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
```

```
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteProductLicenseRequest wrapper for the DeleteProductLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/DeleteProductLicense.go.html to see an example of how to use
DeleteProductLicenseRequest.
type DeleteProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact
 Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteProductLicenseRequest) String() string {
 return common.PointerString(request)
```

```
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
 *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request DeleteProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage
 := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteProductLicenseResponse wrapper for the DeleteProductLicense operation
type DeleteProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`
```

```
 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response DeleteProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response DeleteProductLicenseResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseSummary Summary of a license type for Java.
type JavaLicenseSummary struct {

 // Commonly used name for the license type.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // License Type
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Publicly accessible license URL containing the detailed
```

```
 terms and conditions.
 LicenseUrl *string `mandatory:"true" json:"licenseUrl"`
}

func (m JavaLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListLicenseRecordsRequest wrapper for the ListLicenseRecords operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/ListLicenseRecords.go.html
to see an example of how to use ListLicenseRecordsRequest.
type ListLicenseRecordsRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`
```

```
 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query"
 name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListLicenseRecordsSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `expirationDate`
 // * **expirationDate:** Sorts by expiration date of the license record.
 SortBy ListLicenseRecordsSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted
 to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListLicenseRecordsRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListLicenseRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListLicenseRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {
```

```
 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListLicenseRecordsRequest) RetryPolicy()
 *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListLicenseRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListLicenseRecordsSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder !=
"" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListLicenseRecordsSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListLicenseRecordsSortByEnum(string(request.SortBy)); !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListLicenseRecordsSortByEnumStringValues(),
 ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListLicenseRecordsResponse wrapper for the ListLicenseRecords operation
type ListLicenseRecordsResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of LicenseRecordCollection instances
 LicenseRecordCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
```

```
}

func (response ListLicenseRecordsResponse) String() string
 {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListLicenseRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListLicenseRecordsSortOrderEnum Enum with underlying type: string
type ListLicenseRecordsSortOrderEnum string

// Set of constants representing the allowable values for ListLicenseRecordsSortOrderEnum
const (
 ListLicenseRecordsSortOrderAsc  ListLicenseRecordsSortOrderEnum = "ASC"
 ListLicenseRecordsSortOrderDesc ListLicenseRecordsSortOrderEnum = "DESC"
)

var mappingListLicenseRecordsSortOrderEnum = map[string]ListLicenseRecordsSortOrderEnum{
 "ASC":  ListLicenseRecordsSortOrderAsc,
 "DESC": ListLicenseRecordsSortOrderDesc,
}

var mappingListLicenseRecordsSortOrderEnumLowerCase = map[string]ListLicenseRecordsSortOrderEnum{
 "asc":  ListLicenseRecordsSortOrderAsc,
 "desc": ListLicenseRecordsSortOrderDesc,
}

// GetListLicenseRecordsSortOrderEnumValues Enumerates the set of values
 for ListLicenseRecordsSortOrderEnum
func GetListLicenseRecordsSortOrderEnumValues() []ListLicenseRecordsSortOrderEnum {
 values := make([]ListLicenseRecordsSortOrderEnum, 0)
 for _, v := range mappingListLicenseRecordsSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListLicenseRecordsSortOrderEnumStringValues Enumerates the set of values in String for
ListLicenseRecordsSortOrderEnum
func GetListLicenseRecordsSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
```

```
}

// GetMappingListLicenseRecordsSortOrderEnum performs case Insensitive comparison on enum value and return
the desired enum
func GetMappingListLicenseRecordsSortOrderEnum(val string) (ListLicenseRecordsSortOrderEnum, bool) {
 enum, ok := mappingListLicenseRecordsSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListLicenseRecordsSortByEnum Enum with underlying type: string
type ListLicenseRecordsSortByEnum string

// Set of constants representing the allowable
 values for ListLicenseRecordsSortByEnum
const (
 ListLicenseRecordsSortByExpirationdate ListLicenseRecordsSortByEnum = "expirationDate"
)

var mappingListLicenseRecordsSortByEnum = map[string]ListLicenseRecordsSortByEnum{
 "expirationDate": ListLicenseRecordsSortByExpirationdate,
}

var mappingListLicenseRecordsSortByEnumLowerCase = map[string]ListLicenseRecordsSortByEnum{
 "expirationdate": ListLicenseRecordsSortByExpirationdate,
}

// GetListLicenseRecordsSortByEnumValues Enumerates the set of values for ListLicenseRecordsSortByEnum
func GetListLicenseRecordsSortByEnumValues() []ListLicenseRecordsSortByEnum {
 values := make([]ListLicenseRecordsSortByEnum, 0)
 for _, v := range mappingListLicenseRecordsSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListLicenseRecordsSortByEnumStringValues Enumerates the set of values in String for
ListLicenseRecordsSortByEnum
func GetListLicenseRecordsSortByEnumStringValues() []string {
 return []string{
  "expirationDate",
 }
}

//
 GetMappingListLicenseRecordsSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListLicenseRecordsSortByEnum(val string) (ListLicenseRecordsSortByEnum, bool) {
 enum, ok := mappingListLicenseRecordsSortByEnumLowerCase[strings.ToLower(val)]
```

```
 return enum, ok
}
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// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListJavaLicensesRequest wrapper for the ListJavaLicenses operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/jmsjavadownloads/ListJavaLicenses.go.html
to see an example of how to use ListJavaLicensesRequest.
type ListJavaLicensesRequest struct {

 // Unique Java license type.
 LicenseType ListJavaLicensesLicenseTypeEnum `mandatory:"false" contributesTo:"query" name:"licenseType"
omitEmpty:"true"`

 // A filter to return only resources that match the display name.
 DisplayName
 *string `mandatory:"false" contributesTo:"query" name:"displayName"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // The page token representing the page at which to start retrieving results. The token is usually retrieved from a
previous list call.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The sort order, either 'asc' or 'desc'.
 SortOrder ListJavaLicensesSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // The field to sort by. If no value is specified, _licenseType_ is the default.
 SortBy ListJavaLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy" omitEmpty:"true"`

 // The client request ID for tracing.
```

```
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that
 the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListJavaLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListJavaLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListJavaLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListJavaLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListJavaLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListJavaLicensesLicenseTypeEnum(string(request.LicenseType)); !ok &&
request.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", request.LicenseType, strings.Join(GetListJavaLicensesLicenseTypeEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListJavaLicensesSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder != ""
```

```
{
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are: %s.", request.SortOrder, strings.Join(GetListJavaLicensesSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListJavaLicensesSortByEnum(string(request.SortBy));
 !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.", request.SortBy, strings.Join(GetListJavaLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListJavaLicensesResponse wrapper for the ListJavaLicenses operation
type ListJavaLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of JavaLicenseCollection instances
 JavaLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For list pagination. When this header appears in the response, additional pages of results remain.
 // Include this value as the `page` parameter
 for the subsequent GET request to get the next batch of items.
 // For important details about how pagination works, see List Pagination (https://docs.oracle.com/iaas/Content/API/Concepts/usingapi.htm#nine).
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListJavaLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListJavaLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListJavaLicensesLicenseTypeEnum Enum with underlying type: string
type ListJavaLicensesLicenseTypeEnum string
```

```
// Set of constants representing the allowable values for ListJavaLicensesLicenseTypeEnum
const (
 ListJavaLicensesLicenseTypeOtn        ListJavaLicensesLicenseTypeEnum = "OTN"
 ListJavaLicensesLicenseTypeNftc       ListJavaLicensesLicenseTypeEnum = "NFTC"
 ListJavaLicensesLicenseTypeRestricted ListJavaLicensesLicenseTypeEnum = "RESTRICTED"
)

var
 mappingListJavaLicensesLicenseTypeEnum = map[string]ListJavaLicensesLicenseTypeEnum{
 "OTN":        ListJavaLicensesLicenseTypeOtn,
 "NFTC":       ListJavaLicensesLicenseTypeNftc,
 "RESTRICTED": ListJavaLicensesLicenseTypeRestricted,
}

var mappingListJavaLicensesLicenseTypeEnumLowerCase = map[string]ListJavaLicensesLicenseTypeEnum{
 "otn":        ListJavaLicensesLicenseTypeOtn,
 "nftc":       ListJavaLicensesLicenseTypeNftc,
 "restricted": ListJavaLicensesLicenseTypeRestricted,
}

// GetListJavaLicensesLicenseTypeEnumValues Enumerates the set of values for
ListJavaLicensesLicenseTypeEnum
func GetListJavaLicensesLicenseTypeEnumValues() []ListJavaLicensesLicenseTypeEnum {
 values := make([]ListJavaLicensesLicenseTypeEnum, 0)
 for _, v := range mappingListJavaLicensesLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicensesLicenseTypeEnumStringValues Enumerates the set of values in String for
ListJavaLicensesLicenseTypeEnum
func GetListJavaLicensesLicenseTypeEnumStringValues()
 []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingListJavaLicensesLicenseTypeEnum performs case Insensitive comparison on enum value and return
the desired enum
func GetMappingListJavaLicensesLicenseTypeEnum(val string) (ListJavaLicensesLicenseTypeEnum, bool) {
 enum, ok := mappingListJavaLicensesLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
```

```
// ListJavaLicensesSortOrderEnum Enum with underlying type: string
type ListJavaLicensesSortOrderEnum string

// Set of constants representing the allowable values for ListJavaLicensesSortOrderEnum
const (
 ListJavaLicensesSortOrderAsc  ListJavaLicensesSortOrderEnum = "ASC"
 ListJavaLicensesSortOrderDesc ListJavaLicensesSortOrderEnum = "DESC"
)

var mappingListJavaLicensesSortOrderEnum = map[string]ListJavaLicensesSortOrderEnum{
 "ASC":  ListJavaLicensesSortOrderAsc,
 "DESC": ListJavaLicensesSortOrderDesc,
}

var mappingListJavaLicensesSortOrderEnumLowerCase = map[string]ListJavaLicensesSortOrderEnum{
 "asc":
  ListJavaLicensesSortOrderAsc,
 "desc": ListJavaLicensesSortOrderDesc,
}

// GetListJavaLicensesSortOrderEnumValues Enumerates the set of values for ListJavaLicensesSortOrderEnum
func GetListJavaLicensesSortOrderEnumValues() []ListJavaLicensesSortOrderEnum {
 values := make([]ListJavaLicensesSortOrderEnum, 0)
 for _, v := range mappingListJavaLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListJavaLicensesSortOrderEnum
func GetListJavaLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListJavaLicensesSortOrderEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListJavaLicensesSortOrderEnum(val string) (ListJavaLicensesSortOrderEnum, bool) {
 enum, ok := mappingListJavaLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum,
 ok
}

// ListJavaLicensesSortByEnum Enum with underlying type: string
type ListJavaLicensesSortByEnum string
```

```
// Set of constants representing the allowable values for ListJavaLicensesSortByEnum
const (
 ListJavaLicensesSortByLicensetype ListJavaLicensesSortByEnum = "licenseType"
 ListJavaLicensesSortByDisplayname ListJavaLicensesSortByEnum = "displayName"
)

var mappingListJavaLicensesSortByEnum = map[string]ListJavaLicensesSortByEnum{
 "licenseType": ListJavaLicensesSortByLicensetype,
 "displayName": ListJavaLicensesSortByDisplayname,
}

var mappingListJavaLicensesSortByEnumLowerCase = map[string]ListJavaLicensesSortByEnum{
 "licensetype": ListJavaLicensesSortByLicensetype,
 "displayname": ListJavaLicensesSortByDisplayname,
}

// GetListJavaLicensesSortByEnumValues Enumerates the set of values for ListJavaLicensesSortByEnum
func GetListJavaLicensesSortByEnumValues() []ListJavaLicensesSortByEnum {
 values := make([]ListJavaLicensesSortByEnum, 0)
 for _, v := range mappingListJavaLicensesSortByEnum
 {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicensesSortByEnumStringValues Enumerates the set of values in String for
ListJavaLicensesSortByEnum
func GetListJavaLicensesSortByEnumStringValues() []string {
 return []string{
  "licenseType",
  "displayName",
 }
}

// GetMappingListJavaLicensesSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListJavaLicensesSortByEnum(val string) (ListJavaLicensesSortByEnum, bool) {
 enum, ok := mappingListJavaLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
```
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

```
// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseAcceptanceRecord User acceptance record for a Java license.
type JavaLicenseAcceptanceRecord struct {

 // The unique identifier for the acceptance record.
 Id *string `mandatory:"true" json:"id"`

 // Status of license acceptance.
 LicenseAcceptanceStatus LicenseAcceptanceStatusEnum `mandatory:"true" json:"licenseAcceptanceStatus"`

 //
 The tenancy OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the user accepting
the license.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // License type associated with the acceptance.
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 CreatedBy *Principal `mandatory:"true" json:"createdBy"`

 // The date and time of license acceptance (formatted according to RFC3339
(https://datatracker.ietf.org/doc/html/rfc3339)).
 TimeAccepted *common.SDKTime `mandatory:"true" json:"timeAccepted"`

 LastUpdatedBy *Principal `mandatory:"false" json:"lastUpdatedBy"`

 // The date and time of last update (formatted according to RFC3339 (https://datatracker.ietf.org/doc/html/rfc3339)).
 TimeLastUpdated *common.SDKTime `mandatory:"false" json:"timeLastUpdated"`

 // The current state of the JavaLicenseAcceptanceRecord.
 LifecycleState LifecycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

 // Simple key-value
 pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`. (See Managing Tags and Tag Namespaces
```

```
(https://docs.oracle.com/iaas/Content/Tagging/Concepts/understandingfreeformtags.htm).)
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`. (See Understanding Free-form Tags
(https://docs.oracle.com/iaas/Content/Tagging/Tasks/managingtagsandtagnamespaces.htm)).
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // System tags for this resource. Each key is predefined and scoped to a namespace.
 // For more information, see Resource Tags
(https://docs.oracle.com/iaas/Content/General/Concepts/resourcetags.htm).
 // System tags can be viewed by users, but can only be created by the system.
 // Example: `{"orcl-cloud":
 {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m JavaLicenseAcceptanceRecord) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseAcceptanceRecord) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseAcceptanceStatusEnum(string(m.LicenseAcceptanceStatus)); !ok &&
m.LicenseAcceptanceStatus != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseAcceptanceStatus: %s.
Supported values are: %s.", m.LicenseAcceptanceStatus,
strings.Join(GetLicenseAcceptanceStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage,
 fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are: %s.", m.LicenseType,
strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifecycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicense Details about a license type for Java.
type JavaLicense struct {

 // Commonly used name for the license type.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // License Type
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Publicly accessible license URL containing the detailed terms and conditions.
 LicenseUrl
 *string `mandatory:"true" json:"licenseUrl"`
}

func (m JavaLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
```

```
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetJavaLicenseAcceptanceRecordRequest wrapper for the GetJavaLicenseAcceptanceRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/GetJavaLicenseAcceptanceRecord.go.html to see an example of how to use
GetJavaLicenseAcceptanceRecordRequest.
type GetJavaLicenseAcceptanceRecordRequest struct {

 // Unique Java license acceptance record identifier.
 JavaLicenseAcceptanceRecordId *string `mandatory:"true" contributesTo:"path"
name:"javaLicenseAcceptanceRecordId"`

 //
 The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetJavaLicenseAcceptanceRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetJavaLicenseAcceptanceRecordRequest) HTTPRequest(method, path string, binaryRequestBody
```

```
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetJavaLicenseAcceptanceRecordRequest)
 BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetJavaLicenseAcceptanceRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetJavaLicenseAcceptanceRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetJavaLicenseAcceptanceRecordResponse wrapper for the GetJavaLicenseAcceptanceRecord operation
type GetJavaLicenseAcceptanceRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The JavaLicenseAcceptanceRecord
 instance
 JavaLicenseAcceptanceRecord `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
```

```
 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`
}

func (response GetJavaLicenseAcceptanceRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetJavaLicenseAcceptanceRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListJavaLicenseAcceptanceRecordsRequest wrapper for the ListJavaLicenseAcceptanceRecords operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/ListJavaLicenseAcceptanceRecords.go.html to see an example of how to use
ListJavaLicenseAcceptanceRecordsRequest.
type ListJavaLicenseAcceptanceRecordsRequest struct {

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the tenancy.
 CompartmentId *string `mandatory:"true"
 contributesTo:"query" name:"compartmentId"`

 // A filter to return only resources that match the user principal detail.
 // The search string can be any of the property values from the Principal object.
 // This object is used as a response datatype for the `createdBy` and `lastUpdatedBy` fields in applicable resource.
 SearchByUser *string `mandatory:"false" contributesTo:"query" name:"searchByUser"`

 // Unique Java license acceptance record identifier.
 Id *string `mandatory:"false" contributesTo:"query" name:"id"`
```

```
 // Unique Java license type.
 LicenseType ListJavaLicenseAcceptanceRecordsLicenseTypeEnum `mandatory:"false" contributesTo:"query"
name:"licenseType" omitEmpty:"true"`

 // The status of license acceptance.
 Status ListJavaLicenseAcceptanceRecordsStatusEnum `mandatory:"false" contributesTo:"query" name:"status"
omitEmpty:"true"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // The page token representing
 the page at which to start retrieving results. The token is usually retrieved from a previous list call.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The sort order, either 'asc' or 'desc'.
 SortOrder ListJavaLicenseAcceptanceRecordsSortOrderEnum `mandatory:"false" contributesTo:"query"
name:"sortOrder" omitEmpty:"true"`

 // The field to sort by. If no value is specified, _timeAccepted_ is the default.
 SortBy ListJavaLicenseAcceptanceRecordsSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListJavaLicenseAcceptanceRecordsRequest) String() string {
 return common.PointerString(request)
}

//
 HTTPRequest implements the OCIRequest interface
func (request ListJavaLicenseAcceptanceRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}
```

```
// BinaryRequestBody implements the OCIRequest interface
func (request ListJavaLicenseAcceptanceRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListJavaLicenseAcceptanceRecordsRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called
 during constructing API request process
// Not recommended for calling this function directly
func (request ListJavaLicenseAcceptanceRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum(string(request.LicenseType)); !ok &&
request.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", request.LicenseType, strings.Join(GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumStringValues(),
",")))
 }
 if _, ok := GetMappingListJavaLicenseAcceptanceRecordsStatusEnum(string(request.Status)); !ok &&
request.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
request.Status, strings.Join(GetListJavaLicenseAcceptanceRecordsStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListJavaLicenseAcceptanceRecordsSortOrderEnum(string(request.SortOrder));
 !ok && request.SortOrder != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListJavaLicenseAcceptanceRecordsSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListJavaLicenseAcceptanceRecordsSortByEnum(string(request.SortBy)); !ok &&
request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListJavaLicenseAcceptanceRecordsSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListJavaLicenseAcceptanceRecordsResponse wrapper for the ListJavaLicenseAcceptanceRecords operation
type ListJavaLicenseAcceptanceRecordsResponse struct {
```

```
 // The underlying http response
 RawResponse *http.Response

 // A list of JavaLicenseAcceptanceRecordCollection instances
 JavaLicenseAcceptanceRecordCollection
 `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For list pagination. When this header appears in the response, additional pages of results remain.
 // Include this value as the `page` parameter for the subsequent GET request to get the next batch of items.
 // For important details about how pagination works, see List Pagination
(https://docs.oracle.com/iaas/Content/API/Concepts/usingapi.htm#nine).
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListJavaLicenseAcceptanceRecordsResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListJavaLicenseAcceptanceRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListJavaLicenseAcceptanceRecordsLicenseTypeEnum
 Enum with underlying type: string
type ListJavaLicenseAcceptanceRecordsLicenseTypeEnum string

// Set of constants representing the allowable values for ListJavaLicenseAcceptanceRecordsLicenseTypeEnum
const (
 ListJavaLicenseAcceptanceRecordsLicenseTypeOtn        ListJavaLicenseAcceptanceRecordsLicenseTypeEnum =
"OTN"
 ListJavaLicenseAcceptanceRecordsLicenseTypeNftc       ListJavaLicenseAcceptanceRecordsLicenseTypeEnum =
"NFTC"
 ListJavaLicenseAcceptanceRecordsLicenseTypeRestricted ListJavaLicenseAcceptanceRecordsLicenseTypeEnum =
"RESTRICTED"
)

var mappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum =
map[string]ListJavaLicenseAcceptanceRecordsLicenseTypeEnum{
 "OTN":        ListJavaLicenseAcceptanceRecordsLicenseTypeOtn,
 "NFTC":       ListJavaLicenseAcceptanceRecordsLicenseTypeNftc,
 "RESTRICTED": ListJavaLicenseAcceptanceRecordsLicenseTypeRestricted,
}
```

```
var mappingListJavaLicenseAcceptanceRecordsLicenseTypeEnumLowerCase =
map[string]ListJavaLicenseAcceptanceRecordsLicenseTypeEnum{
 "otn":
        ListJavaLicenseAcceptanceRecordsLicenseTypeOtn,
 "nftc":       ListJavaLicenseAcceptanceRecordsLicenseTypeNftc,
 "restricted": ListJavaLicenseAcceptanceRecordsLicenseTypeRestricted,
}

// GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumValues Enumerates the set of values for
ListJavaLicenseAcceptanceRecordsLicenseTypeEnum
func GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumValues()
[]ListJavaLicenseAcceptanceRecordsLicenseTypeEnum {
 values := make([]ListJavaLicenseAcceptanceRecordsLicenseTypeEnum, 0)
 for _, v := range mappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumStringValues Enumerates the set of values in String for
ListJavaLicenseAcceptanceRecordsLicenseTypeEnum
func GetListJavaLicenseAcceptanceRecordsLicenseTypeEnumStringValues() []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum
 performs case Insensitive comparison on enum value and return the desired enum
func GetMappingListJavaLicenseAcceptanceRecordsLicenseTypeEnum(val string)
(ListJavaLicenseAcceptanceRecordsLicenseTypeEnum, bool) {
 enum, ok := mappingListJavaLicenseAcceptanceRecordsLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListJavaLicenseAcceptanceRecordsStatusEnum Enum with underlying type: string
type ListJavaLicenseAcceptanceRecordsStatusEnum string

// Set of constants representing the allowable values for ListJavaLicenseAcceptanceRecordsStatusEnum
const (
 ListJavaLicenseAcceptanceRecordsStatusAccepted ListJavaLicenseAcceptanceRecordsStatusEnum =
"ACCEPTED"
 ListJavaLicenseAcceptanceRecordsStatusRevoked  ListJavaLicenseAcceptanceRecordsStatusEnum = "REVOKED"
)
```

```
var mappingListJavaLicenseAcceptanceRecordsStatusEnum =
map[string]ListJavaLicenseAcceptanceRecordsStatusEnum{
 "ACCEPTED": ListJavaLicenseAcceptanceRecordsStatusAccepted,
 "REVOKED":
  ListJavaLicenseAcceptanceRecordsStatusRevoked,
}

var mappingListJavaLicenseAcceptanceRecordsStatusEnumLowerCase =
map[string]ListJavaLicenseAcceptanceRecordsStatusEnum{
 "accepted": ListJavaLicenseAcceptanceRecordsStatusAccepted,
 "revoked":  ListJavaLicenseAcceptanceRecordsStatusRevoked,
}

// GetListJavaLicenseAcceptanceRecordsStatusEnumValues Enumerates the set of values for
ListJavaLicenseAcceptanceRecordsStatusEnum
func GetListJavaLicenseAcceptanceRecordsStatusEnumValues() []ListJavaLicenseAcceptanceRecordsStatusEnum
{
 values := make([]ListJavaLicenseAcceptanceRecordsStatusEnum, 0)
 for _, v := range mappingListJavaLicenseAcceptanceRecordsStatusEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicenseAcceptanceRecordsStatusEnumStringValues Enumerates the set of values in String for
ListJavaLicenseAcceptanceRecordsStatusEnum
func GetListJavaLicenseAcceptanceRecordsStatusEnumStringValues() []string {
 return []string{
  "ACCEPTED",
  "REVOKED",
 }
}

//
 GetMappingListJavaLicenseAcceptanceRecordsStatusEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListJavaLicenseAcceptanceRecordsStatusEnum(val string)
(ListJavaLicenseAcceptanceRecordsStatusEnum, bool) {
 enum, ok := mappingListJavaLicenseAcceptanceRecordsStatusEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListJavaLicenseAcceptanceRecordsSortOrderEnum Enum with underlying type: string
type ListJavaLicenseAcceptanceRecordsSortOrderEnum string

// Set of constants representing the allowable values for ListJavaLicenseAcceptanceRecordsSortOrderEnum
const (
 ListJavaLicenseAcceptanceRecordsSortOrderAsc  ListJavaLicenseAcceptanceRecordsSortOrderEnum = "ASC"
```

```
 ListJavaLicenseAcceptanceRecordsSortOrderDesc ListJavaLicenseAcceptanceRecordsSortOrderEnum = "DESC"
)

var mappingListJavaLicenseAcceptanceRecordsSortOrderEnum =
map[string]ListJavaLicenseAcceptanceRecordsSortOrderEnum{
 "ASC":  ListJavaLicenseAcceptanceRecordsSortOrderAsc,
 "DESC":
 ListJavaLicenseAcceptanceRecordsSortOrderDesc,
}

var mappingListJavaLicenseAcceptanceRecordsSortOrderEnumLowerCase =
map[string]ListJavaLicenseAcceptanceRecordsSortOrderEnum{
 "asc":  ListJavaLicenseAcceptanceRecordsSortOrderAsc,
 "desc": ListJavaLicenseAcceptanceRecordsSortOrderDesc,
}

// GetListJavaLicenseAcceptanceRecordsSortOrderEnumValues Enumerates the set of values for
ListJavaLicenseAcceptanceRecordsSortOrderEnum
func GetListJavaLicenseAcceptanceRecordsSortOrderEnumValues()
[]ListJavaLicenseAcceptanceRecordsSortOrderEnum {
 values := make([]ListJavaLicenseAcceptanceRecordsSortOrderEnum, 0)
 for _, v := range mappingListJavaLicenseAcceptanceRecordsSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicenseAcceptanceRecordsSortOrderEnumStringValues Enumerates the set of values in String for
ListJavaLicenseAcceptanceRecordsSortOrderEnum
func GetListJavaLicenseAcceptanceRecordsSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

//
 GetMappingListJavaLicenseAcceptanceRecordsSortOrderEnum performs case Insensitive comparison on enum
value and return the desired enum
func GetMappingListJavaLicenseAcceptanceRecordsSortOrderEnum(val string)
(ListJavaLicenseAcceptanceRecordsSortOrderEnum, bool) {
 enum, ok := mappingListJavaLicenseAcceptanceRecordsSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListJavaLicenseAcceptanceRecordsSortByEnum Enum with underlying type: string
type ListJavaLicenseAcceptanceRecordsSortByEnum string
```

```
// Set of constants representing the allowable values for ListJavaLicenseAcceptanceRecordsSortByEnum
const (
 ListJavaLicenseAcceptanceRecordsSortByTimeaccepted           ListJavaLicenseAcceptanceRecordsSortByEnum =
"timeAccepted"
 ListJavaLicenseAcceptanceRecordsSortByTimelastupdated         ListJavaLicenseAcceptanceRecordsSortByEnum =
"timeLastUpdated"
 ListJavaLicenseAcceptanceRecordsSortByLicenseacceptancestatus
ListJavaLicenseAcceptanceRecordsSortByEnum
 = "licenseAcceptanceStatus"
)

var mappingListJavaLicenseAcceptanceRecordsSortByEnum =
map[string]ListJavaLicenseAcceptanceRecordsSortByEnum{
 "timeAccepted":            ListJavaLicenseAcceptanceRecordsSortByTimeaccepted,
 "timeLastUpdated":         ListJavaLicenseAcceptanceRecordsSortByTimelastupdated,
 "licenseAcceptanceStatus": ListJavaLicenseAcceptanceRecordsSortByLicenseacceptancestatus,
}

var mappingListJavaLicenseAcceptanceRecordsSortByEnumLowerCase =
map[string]ListJavaLicenseAcceptanceRecordsSortByEnum{
 "timeaccepted":            ListJavaLicenseAcceptanceRecordsSortByTimeaccepted,
 "timelastupdated":         ListJavaLicenseAcceptanceRecordsSortByTimelastupdated,
 "licenseacceptancestatus": ListJavaLicenseAcceptanceRecordsSortByLicenseacceptancestatus,
}

// GetListJavaLicenseAcceptanceRecordsSortByEnumValues Enumerates the set of values for
ListJavaLicenseAcceptanceRecordsSortByEnum
func GetListJavaLicenseAcceptanceRecordsSortByEnumValues()
[]ListJavaLicenseAcceptanceRecordsSortByEnum
 {
 values := make([]ListJavaLicenseAcceptanceRecordsSortByEnum, 0)
 for _, v := range mappingListJavaLicenseAcceptanceRecordsSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListJavaLicenseAcceptanceRecordsSortByEnumStringValues Enumerates the set of values in String for
ListJavaLicenseAcceptanceRecordsSortByEnum
func GetListJavaLicenseAcceptanceRecordsSortByEnumStringValues() []string {
 return []string{
  "timeAccepted",
  "timeLastUpdated",
  "licenseAcceptanceStatus",
 }
}

// GetMappingListJavaLicenseAcceptanceRecordsSortByEnum performs case Insensitive comparison on enum
```

```
value and return the desired enum
func GetMappingListJavaLicenseAcceptanceRecordsSortByEnum(val string)
(ListJavaLicenseAcceptanceRecordsSortByEnum, bool) {
 enum, ok := mappingListJavaLicenseAcceptanceRecordsSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and service
limits, see Tagging (https://docs.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and Service
Limits (https://docs.oracle.com/iaas/Content/General/Concepts/servicelimits.htm). For
 information about creating, modifying, and deleting identity domains, see Identity and Access Management (with
identity domains) (https://docs.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ChangeTasDomainLicenseTypeDetails (For tenancies that support identity domains) Update the identity domain
license type.
type ChangeTasDomainLicenseTypeDetails struct {

 // The license type of the identity domain.
 LicenseType *string `mandatory:"false" json:"licenseType"`
}

func (m ChangeTasDomainLicenseTypeDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ChangeTasDomainLicenseTypeDetails) ValidateEnumValue() (bool, error) {
```

```
 errMessage := []string{}

 if len(errMessage) > 0 {
  return
 true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "strings"
)

// LicenseAcceptanceSortByEnum Enum with underlying type: string
type LicenseAcceptanceSortByEnum string

// Set of constants representing the allowable values for LicenseAcceptanceSortByEnum
const (
 LicenseAcceptanceSortByTimeAccepted           LicenseAcceptanceSortByEnum = "timeAccepted"
 LicenseAcceptanceSortByTimeLastUpdated        LicenseAcceptanceSortByEnum = "timeLastUpdated"
 LicenseAcceptanceSortByLicenseAcceptanceStatus
 LicenseAcceptanceSortByEnum = "licenseAcceptanceStatus"
)

var mappingLicenseAcceptanceSortByEnum = map[string]LicenseAcceptanceSortByEnum{
 "timeAccepted":           LicenseAcceptanceSortByTimeAccepted,
 "timeLastUpdated":        LicenseAcceptanceSortByTimeLastUpdated,
 "licenseAcceptanceStatus": LicenseAcceptanceSortByLicenseAcceptanceStatus,
}

var mappingLicenseAcceptanceSortByEnumLowerCase = map[string]LicenseAcceptanceSortByEnum{
 "timeaccepted":           LicenseAcceptanceSortByTimeAccepted,
 "timelastupdated":        LicenseAcceptanceSortByTimeLastUpdated,
 "licenseacceptancestatus": LicenseAcceptanceSortByLicenseAcceptanceStatus,
}
```

```
// GetLicenseAcceptanceSortByEnumValues Enumerates the set of values for LicenseAcceptanceSortByEnum
func GetLicenseAcceptanceSortByEnumValues() []LicenseAcceptanceSortByEnum {
 values := make([]LicenseAcceptanceSortByEnum, 0)
 for _, v := range mappingLicenseAcceptanceSortByEnum {
  values = append(values,
 v)
 }
 return values
}

// GetLicenseAcceptanceSortByEnumStringValues Enumerates the set of values in String for
LicenseAcceptanceSortByEnum
func GetLicenseAcceptanceSortByEnumStringValues() []string {
 return []string{
  "timeAccepted",
  "timeLastUpdated",
  "licenseAcceptanceStatus",
 }
}

// GetMappingLicenseAcceptanceSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingLicenseAcceptanceSortByEnum(val string) (LicenseAcceptanceSortByEnum, bool) {
 enum, ok := mappingLicenseAcceptanceSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "strings"
)

// HcxLicenseStatusEnum Enum with underlying type: string
type HcxLicenseStatusEnum string
```

```
// Set of constants representing the allowable values for HcxLicenseStatusEnum
const (
 HcxLicenseStatusAvailable   HcxLicenseStatusEnum = "AVAILABLE"
 HcxLicenseStatusConsumed    HcxLicenseStatusEnum = "CONSUMED"
 HcxLicenseStatusDeactivated HcxLicenseStatusEnum
 = "DEACTIVATED"
 HcxLicenseStatusDeleted     HcxLicenseStatusEnum = "DELETED"
)

var mappingHcxLicenseStatusEnum = map[string]HcxLicenseStatusEnum{
 "AVAILABLE":   HcxLicenseStatusAvailable,
 "CONSUMED":    HcxLicenseStatusConsumed,
 "DEACTIVATED": HcxLicenseStatusDeactivated,
 "DELETED":     HcxLicenseStatusDeleted,
}

var mappingHcxLicenseStatusEnumLowerCase = map[string]HcxLicenseStatusEnum{
 "available":   HcxLicenseStatusAvailable,
 "consumed":    HcxLicenseStatusConsumed,
 "deactivated": HcxLicenseStatusDeactivated,
 "deleted":     HcxLicenseStatusDeleted,
}

// GetHcxLicenseStatusEnumValues Enumerates the set of values for HcxLicenseStatusEnum
func GetHcxLicenseStatusEnumValues() []HcxLicenseStatusEnum {
 values := make([]HcxLicenseStatusEnum, 0)
 for _, v := range mappingHcxLicenseStatusEnum {
  values = append(values, v)
 }
 return values
}

// GetHcxLicenseStatusEnumStringValues Enumerates the set of values in String for HcxLicenseStatusEnum
func GetHcxLicenseStatusEnumStringValues()
 []string {
 return []string{
  "AVAILABLE",
  "CONSUMED",
  "DEACTIVATED",
  "DELETED",
 }
}

// GetMappingHcxLicenseStatusEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingHcxLicenseStatusEnum(val string) (HcxLicenseStatusEnum, bool) {
 enum, ok := mappingHcxLicenseStatusEnumLowerCase[strings.ToLower(val)]
```

```
 return enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseEnterpriseExtensibilityConfigSummary Summary of a LICENSE_ENTERPRISE_EXTENSIBILITY
configuration.
type LicenseEnterpriseExtensibilityConfigSummary struct {

 // Unique identifier that is immutable on creation.
 Id *string `mandatory:"true" json:"id"`

 // Compartment Identifier.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // True if enterprise extensibility is enabled, false if it is not enabled.
 IsEnabled *bool `mandatory:"true"
 json:"isEnabled"`

 // Config Identifier, can be renamed.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // The time the the configuration was created. An RFC3339 formatted datetime string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the configuration was updated.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
```

```
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags
 map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`

 // The current state of the configuration.
 LifecycleState ConfigLifecycleStateEnum `mandatory:"true" json:"lifecycleState"`
}

// GetId returns Id
func (m LicenseEnterpriseExtensibilityConfigSummary) GetId() *string {
 return m.Id
}

// GetCompartmentId returns CompartmentId
func (m LicenseEnterpriseExtensibilityConfigSummary) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetDisplayName returns DisplayName
func (m LicenseEnterpriseExtensibilityConfigSummary) GetDisplayName() *string {
 return m.DisplayName
}

// GetTimeCreated returns TimeCreated
func (m LicenseEnterpriseExtensibilityConfigSummary) GetTimeCreated() *common.SDKTime {
 return m.TimeCreated
}

// GetTimeUpdated returns TimeUpdated
func (m LicenseEnterpriseExtensibilityConfigSummary) GetTimeUpdated() *common.SDKTime {
 return m.TimeUpdated
}

// GetLifecycleState returns LifecycleState
func (m LicenseEnterpriseExtensibilityConfigSummary)
 GetLifecycleState() ConfigLifecycleStateEnum {
 return m.LifecycleState
}

// GetFreeformTags returns FreeformTags
func (m LicenseEnterpriseExtensibilityConfigSummary) GetFreeformTags() map[string]string {
```

```
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m LicenseEnterpriseExtensibilityConfigSummary) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

// GetSystemTags returns SystemTags
func (m LicenseEnterpriseExtensibilityConfigSummary) GetSystemTags() map[string]map[string]interface{} {
 return m.SystemTags
}

func (m LicenseEnterpriseExtensibilityConfigSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseEnterpriseExtensibilityConfigSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if
 _, ok := GetMappingConfigLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetConfigLifecycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m LicenseEnterpriseExtensibilityConfigSummary) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeLicenseEnterpriseExtensibilityConfigSummary LicenseEnterpriseExtensibilityConfigSummary
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeLicenseEnterpriseExtensibilityConfigSummary
 }{
  "LICENSE_ENTERPRISE_EXTENSIBILITY",
  (MarshalTypeLicenseEnterpriseExtensibilityConfigSummary)(m),
 }

 return json.Marshal(&s)
}
```

```
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// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ManageLicenseDetails License information for a given resource.
type ManageLicenseDetails struct {

 // License edition of the monitored resource.
 License LicenseTypeEnum `mandatory:"true" json:"license"`
}

func (m ManageLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this
 function directly
func (m ManageLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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```

```
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// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecordCollection The license record summary collection.
type LicenseRecordCollection struct {

 // The license record summary collection.
 Items []LicenseRecordSummary `mandatory:"true" json:"items"`
}

func (m LicenseRecordCollection) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecordCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Java Management Service Download API
```

```
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicenseAcceptanceRecordSummary User acceptance record summary for a Java license.
type JavaLicenseAcceptanceRecordSummary struct {

 // The unique identifier for the acceptance record.
 Id *string `mandatory:"true" json:"id"`

 // Status of license acceptance.
 LicenseAcceptanceStatus LicenseAcceptanceStatusEnum `mandatory:"true" json:"licenseAcceptanceStatus"`

 //
 The tenancy OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the user accepting
the license.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // License type associated with the acceptance.
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 CreatedBy *Principal `mandatory:"true" json:"createdBy"`

 // The date and time of license acceptance (formatted according to RFC3339
(https://datatracker.ietf.org/doc/html/rfc3339)).
 TimeAccepted *common.SDKTime `mandatory:"true" json:"timeAccepted"`

 LastUpdatedBy *Principal `mandatory:"false" json:"lastUpdatedBy"`

 // The date and time of last update (formatted according to RFC3339 (https://datatracker.ietf.org/doc/html/rfc3339)).
 TimeLastUpdated *common.SDKTime `mandatory:"false" json:"timeLastUpdated"`

 // The current state of the JavaLicenseAcceptanceRecord.
 LifecycleState LifecycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

 //
 Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`. (See Managing Tags and Tag Namespaces
```

```
(https://docs.oracle.com/iaas/Content/Tagging/Concepts/understandingfreeformtags.htm).)
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`. (See Understanding Free-form Tags
(https://docs.oracle.com/iaas/Content/Tagging/Tasks/managingtagsandtagnamespaces.htm)).
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // System tags for this resource. Each key is predefined and scoped to a namespace.
 // For more information, see Resource Tags
(https://docs.oracle.com/iaas/Content/General/Concepts/resourcetags.htm).
 // System tags can be viewed by users, but can only be created by the system.
 //
 Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m JavaLicenseAcceptanceRecordSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseAcceptanceRecordSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseAcceptanceStatusEnum(string(m.LicenseAcceptanceStatus)); !ok &&
m.LicenseAcceptanceStatus != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseAcceptanceStatus: %s.
Supported values are: %s.", m.LicenseAcceptanceStatus,
strings.Join(GetLicenseAcceptanceStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != ""
 {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifecycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListProductLicensesRequest wrapper for the ListProductLicenses operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/ListProductLicenses.go.html
to see an example of how to use ListProductLicensesRequest.
type ListProductLicensesRequest struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for the
license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query"
 name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListProductLicensesSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which to sort
```

```
 the rules.
 // Default: `totalLicenseUnitsConsumed`
 // * **totalLicenseUnitsConsumed:** Sorts by totalLicenseUnitsConsumed of ProductLicense.
 SortBy ListProductLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListProductLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListProductLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody
 implements the OCIRequest interface
func (request ListProductLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListProductLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListProductLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListProductLicensesSortOrderEnum(string(request.SortOrder)); !ok && request.SortOrder !=
"" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
```

```
%s.", request.SortOrder, strings.Join(GetListProductLicensesSortOrderEnumStringValues(),
 ","")))
 }
 if _, ok := GetMappingListProductLicensesSortByEnum(string(request.SortBy)); !ok && request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListProductLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListProductLicensesResponse wrapper for the ListProductLicenses operation
type ListProductLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of ProductLicenseCollection instances
 ProductLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging
 through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListProductLicensesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListProductLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListProductLicensesSortOrderEnum Enum with underlying type: string
type ListProductLicensesSortOrderEnum string

// Set of constants representing the allowable values for ListProductLicensesSortOrderEnum
const (
 ListProductLicensesSortOrderAsc  ListProductLicensesSortOrderEnum = "ASC"
```

```
 ListProductLicensesSortOrderDesc ListProductLicensesSortOrderEnum = "DESC"
)

var mappingListProductLicensesSortOrderEnum = map[string]ListProductLicensesSortOrderEnum{
 "ASC":
  ListProductLicensesSortOrderAsc,
 "DESC": ListProductLicensesSortOrderDesc,
}

var mappingListProductLicensesSortOrderEnumLowerCase = map[string]ListProductLicensesSortOrderEnum{
 "asc":  ListProductLicensesSortOrderAsc,
 "desc": ListProductLicensesSortOrderDesc,
}

// GetListProductLicensesSortOrderEnumValues Enumerates the set of values for
ListProductLicensesSortOrderEnum
func GetListProductLicensesSortOrderEnumValues() []ListProductLicensesSortOrderEnum {
 values := make([]ListProductLicensesSortOrderEnum, 0)
 for _, v := range mappingListProductLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListProductLicensesSortOrderEnum
func GetListProductLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListProductLicensesSortOrderEnum performs case Insensitive comparison on enum value and return
the desired
 enum
func GetMappingListProductLicensesSortOrderEnum(val string) (ListProductLicensesSortOrderEnum, bool) {
 enum, ok := mappingListProductLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListProductLicensesSortByEnum Enum with underlying type: string
type ListProductLicensesSortByEnum string

// Set of constants representing the allowable values for ListProductLicensesSortByEnum
const (
 ListProductLicensesSortByTotallicenseunitsconsumed ListProductLicensesSortByEnum =
"totalLicenseUnitsConsumed"
```

```
)

var mappingListProductLicensesSortByEnum = map[string]ListProductLicensesSortByEnum{
 "totalLicenseUnitsConsumed": ListProductLicensesSortByTotallicenseunitsconsumed,
}

var mappingListProductLicensesSortByEnumLowerCase = map[string]ListProductLicensesSortByEnum{
 "totallicenseunitsconsumed": ListProductLicensesSortByTotallicenseunitsconsumed,
}

// GetListProductLicensesSortByEnumValues Enumerates the set of values for ListProductLicensesSortByEnum
func GetListProductLicensesSortByEnumValues()
 []ListProductLicensesSortByEnum {
 values := make([]ListProductLicensesSortByEnum, 0)
 for _, v := range mappingListProductLicensesSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicensesSortByEnumStringValues Enumerates the set of values in String for
ListProductLicensesSortByEnum
func GetListProductLicensesSortByEnumStringValues() []string {
 return []string{
  "totalLicenseUnitsConsumed",
 }
}

// GetMappingListProductLicensesSortByEnum performs case Insensitive comparison on enum value and return the
desired enum
func GetMappingListProductLicensesSortByEnum(val string) (ListProductLicensesSortByEnum, bool) {
 enum, ok := mappingListProductLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// VsphereLicense License for vSphere upgrade.
type VsphereLicense struct {

 // vSphere license type.
 LicenseType *string `mandatory:"true" json:"licenseType"`

 // vSphere license key value.
 LicenseKey *string `mandatory:"true" json:"licenseKey"`
}

func (m VsphereLicense) String()
 string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m VsphereLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
```

```
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeOtn        LicenseTypeEnum = "OTN"
 LicenseTypeNftc       LicenseTypeEnum = "NFTC"
 LicenseTypeRestricted LicenseTypeEnum = "RESTRICTED"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "OTN":        LicenseTypeOtn,
 "NFTC":
       LicenseTypeNftc,
 "RESTRICTED": LicenseTypeRestricted,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "otn":        LicenseTypeOtn,
 "nftc":       LicenseTypeNftc,
 "restricted": LicenseTypeRestricted,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
```

```
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetLicenseMetricRequest wrapper for the GetLicenseMetric operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/GetLicenseMetric.go.html
to see an example of how to use GetLicenseMetricRequest.
type GetLicenseMetricRequest struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for the
license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 //
 The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetLicenseMetricRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetLicenseMetricRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {
```

```
 _, err := request.ValidateEnumValue()
 if
 err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetLicenseMetricRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetLicenseMetricRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetLicenseMetricRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetLicenseMetricResponse
 wrapper for the GetLicenseMetric operation
type GetLicenseMetricResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseMetric instance
 LicenseMetric `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
```

```
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetLicenseMetricResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetLicenseMetricResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateJavaLicenseAcceptanceRecordRequest wrapper for the CreateJavaLicenseAcceptanceRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/CreateJavaLicenseAcceptanceRecord.go.html to see an example of how to use
CreateJavaLicenseAcceptanceRecordRequest.
type CreateJavaLicenseAcceptanceRecordRequest struct {

 // Details for the new JavaLicenseAcceptanceRecord.
 CreateJavaLicenseAcceptanceRecordDetails `contributesTo:"body"`

 // A token that uniquely
 identifies a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations. For example, if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // might be rejected.
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`
```

```
 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateJavaLicenseAcceptanceRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request
 CreateJavaLicenseAcceptanceRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateJavaLicenseAcceptanceRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateJavaLicenseAcceptanceRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this
 function directly
func (request CreateJavaLicenseAcceptanceRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
// CreateJavaLicenseAcceptanceRecordResponse wrapper for the CreateJavaLicenseAcceptanceRecord operation
type CreateJavaLicenseAcceptanceRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The JavaLicenseAcceptanceRecord instance
 JavaLicenseAcceptanceRecord `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`
}

func (response CreateJavaLicenseAcceptanceRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse
 implements the OCIResponse interface
func (response CreateJavaLicenseAcceptanceRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteJavaLicenseAcceptanceRecordRequest wrapper for the DeleteJavaLicenseAcceptanceRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/DeleteJavaLicenseAcceptanceRecord.go.html to see an example of how to use
DeleteJavaLicenseAcceptanceRecordRequest.
```

```
type DeleteJavaLicenseAcceptanceRecordRequest struct {

 // Unique Java license acceptance record identifier.
 JavaLicenseAcceptanceRecordId *string `mandatory:"true" contributesTo:"path"
name:"javaLicenseAcceptanceRecordId"`

 //
 For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // ETag from a previous GET or POST response for that resource.
 // The resource will be updated or deleted only if the ETag you
 // provide matches the resource's current ETag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteJavaLicenseAcceptanceRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteJavaLicenseAcceptanceRecordRequest) HTTPRequest(method,
 path string, binaryRequestBody *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request,
error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteJavaLicenseAcceptanceRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
```

```
func (request DeleteJavaLicenseAcceptanceRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request DeleteJavaLicenseAcceptanceRecordRequest)
 ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteJavaLicenseAcceptanceRecordResponse wrapper for the DeleteJavaLicenseAcceptanceRecord operation
type DeleteJavaLicenseAcceptanceRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response DeleteJavaLicenseAcceptanceRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response DeleteJavaLicenseAcceptanceRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateLicenseRecordDetails The details about the new license record.
type CreateLicenseRecordDetails struct {

 // License record name.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true"
 json:"isPerpetual"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The number of license units added by a user in a license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 //
 Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}
```

```
func (m CreateLicenseRecordDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateLicenseRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateProductLicenseRequest wrapper for the CreateProductLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/CreateProductLicense.go.html to see an example of how to use
CreateProductLicenseRequest.
type CreateProductLicenseRequest struct {

 // Details for creating a new product license.
 CreateProductLicenseDetails `contributesTo:"body"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular
 request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or server error without
```

```
 // risk of executing that same action again. Retry tokens expire after 24 hours, but can be invalidated before
 // then due to conflicting operations (for example, if a resource has been deleted and purged from the system,
 // then a retry of the original creation request might be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func
 (request CreateProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request CreateProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request
 CreateProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
```

```
 return false, nil
}

// CreateProductLicenseResponse wrapper for the CreateProductLicense operation
type CreateProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of
 the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response CreateProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response CreateProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Data Plane API
//
// APIs for managing identity data plane services. For example, use this API to create a scoped-access security
token. To manage identity domains (for example, creating or deleting an identity domain) or to manage resources
(for example, users and groups) within the default identity domain, see IAM API
(https://docs.oracle.com/iaas/api/#/en/identity/).
```

```
//

package identitydataplane

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// Permission The representation of Permission
type Permission struct {

 // The name of the permission.
 P *string `mandatory:"true"
 json:"p"`
}

func (m Permission) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m Permission) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)
```

```
// UpdateLicenseRecordRequest wrapper for the UpdateLicenseRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/UpdateLicenseRecord.go.html to see an example of how to use
UpdateLicenseRecordRequest.
type UpdateLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // Details to update a license record entity.
 UpdateLicenseRecordDetails `contributesTo:"body"`

 //
 For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest
 interface
func (request UpdateLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
```

```
func (request UpdateLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func
 (request UpdateLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateLicenseRecordResponse wrapper for the UpdateLicenseRecord operation
type UpdateLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response UpdateLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateLicenseRecordResponse) HTTPResponse() *http.Response
 {
 return response.RawResponse
```

```
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListProductLicenseConsumersRequest wrapper for the ListProductLicenseConsumers operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/ListProductLicenseConsumers.go.html to see an example of how to use
ListProductLicenseConsumersRequest.
type ListProductLicenseConsumersRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 used for the license record, product license, and configuration.
 CompartmentId *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page`
header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder
```

```
 ListProductLicenseConsumersSortOrderEnum `mandatory:"false" contributesTo:"query" name:"sortOrder"
omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `licenseUnitsRequired`
 // * **licenseUnitsRequired:** Sorts by licenseUnitsRequired of the Resource.
 SortBy ListProductLicenseConsumersSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListProductLicenseConsumersRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListProductLicenseConsumersRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if
 err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListProductLicenseConsumersRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool)
{

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ListProductLicenseConsumersRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListProductLicenseConsumersRequest) ValidateEnumValue() (bool, error) {
```

```
 errMessage := []string{}
 if _, ok := GetMappingListProductLicenseConsumersSortOrderEnum(string(request.SortOrder));
 !ok && request.SortOrder != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are:
%s.", request.SortOrder, strings.Join(GetListProductLicenseConsumersSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListProductLicenseConsumersSortByEnum(string(request.SortBy)); !ok && request.SortBy
!= "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListProductLicenseConsumersSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListProductLicenseConsumersResponse wrapper for the ListProductLicenseConsumers operation
type ListProductLicenseConsumersResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of ProductLicenseConsumerCollection instances
 ProductLicenseConsumerCollection `presentIn:"body"`

 //
 Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListProductLicenseConsumersResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListProductLicenseConsumersResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListProductLicenseConsumersSortOrderEnum Enum with underlying type: string
type ListProductLicenseConsumersSortOrderEnum string
```

```
// Set of constants representing
 the allowable values for ListProductLicenseConsumersSortOrderEnum
const (
 ListProductLicenseConsumersSortOrderAsc  ListProductLicenseConsumersSortOrderEnum = "ASC"
 ListProductLicenseConsumersSortOrderDesc ListProductLicenseConsumersSortOrderEnum = "DESC"
)

var mappingListProductLicenseConsumersSortOrderEnum =
map[string]ListProductLicenseConsumersSortOrderEnum{
 "ASC":  ListProductLicenseConsumersSortOrderAsc,
 "DESC": ListProductLicenseConsumersSortOrderDesc,
}

var mappingListProductLicenseConsumersSortOrderEnumLowerCase =
map[string]ListProductLicenseConsumersSortOrderEnum{
 "asc":  ListProductLicenseConsumersSortOrderAsc,
 "desc": ListProductLicenseConsumersSortOrderDesc,
}

// GetListProductLicenseConsumersSortOrderEnumValues Enumerates the set of values for
ListProductLicenseConsumersSortOrderEnum
func GetListProductLicenseConsumersSortOrderEnumValues() []ListProductLicenseConsumersSortOrderEnum {
 values := make([]ListProductLicenseConsumersSortOrderEnum, 0)
 for _,
 v := range mappingListProductLicenseConsumersSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicenseConsumersSortOrderEnumStringValues Enumerates the set of values in String for
ListProductLicenseConsumersSortOrderEnum
func GetListProductLicenseConsumersSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
}

// GetMappingListProductLicenseConsumersSortOrderEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListProductLicenseConsumersSortOrderEnum(val string)
(ListProductLicenseConsumersSortOrderEnum, bool) {
 enum, ok := mappingListProductLicenseConsumersSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
```

```
// ListProductLicenseConsumersSortByEnum Enum with underlying type: string
type ListProductLicenseConsumersSortByEnum string

// Set of constants representing the allowable values for ListProductLicenseConsumersSortByEnum
const (
 ListProductLicenseConsumersSortByLicenseunitsrequired
 ListProductLicenseConsumersSortByEnum = "licenseUnitsRequired"
)

var mappingListProductLicenseConsumersSortByEnum = map[string]ListProductLicenseConsumersSortByEnum{
 "licenseUnitsRequired": ListProductLicenseConsumersSortByLicenseunitsrequired,
}

var mappingListProductLicenseConsumersSortByEnumLowerCase =
map[string]ListProductLicenseConsumersSortByEnum{
 "licenseunitsrequired": ListProductLicenseConsumersSortByLicenseunitsrequired,
}

// GetListProductLicenseConsumersSortByEnumValues Enumerates the set of values for
ListProductLicenseConsumersSortByEnum
func GetListProductLicenseConsumersSortByEnumValues() []ListProductLicenseConsumersSortByEnum {
 values := make([]ListProductLicenseConsumersSortByEnum, 0)
 for _, v := range mappingListProductLicenseConsumersSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListProductLicenseConsumersSortByEnumStringValues Enumerates the set of values in String for
ListProductLicenseConsumersSortByEnum
func
 GetListProductLicenseConsumersSortByEnumStringValues() []string {
 return []string{
  "licenseUnitsRequired",
 }
}

// GetMappingListProductLicenseConsumersSortByEnum performs case Insensitive comparison on enum value and
return the desired enum
func GetMappingListProductLicenseConsumersSortByEnum(val string)
(ListProductLicenseConsumersSortByEnum, bool) {
 enum, ok := mappingListProductLicenseConsumersSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
```
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.

```
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecord License record summary.
type LicenseRecord struct {

 // The license record OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The license record display name. Avoid entering confidential information.
 DisplayName
 *string `mandatory:"true" json:"displayName"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true" json:"isPerpetual"`

 // The current license record state.
 LifecycleState LifeCycleStateEnum `mandatory:"true" json:"lifecycleState"`

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) with which the
license record is associated.
 ProductLicenseId *string `mandatory:"false" json:"productLicenseId"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where the
license record is created.
 CompartmentId *string `mandatory:"false" json:"compartmentId"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // The number of license units added by the user for the given license record.
 // Default
```

```
 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The time the license record was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the license record was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"false" json:"licenseUnit,omitempty"`

 // The product license name with which
 the license record is associated.
 ProductLicense *string `mandatory:"false" json:"productLicense"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m LicenseRecord) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API
```

```
 request process
// Not recommended for calling this function directly
func (m LicenseRecord) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicense The product license details.
type ProductLicense struct {

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm)
 where the product license is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`
```

```
// The current product license status.
Status StatusEnum `mandatory:"true" json:"status"`

// The product license unit.
LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

// Specifies whether the vendor is Oracle or a third party.
IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

// License record name
DisplayName *string `mandatory:"true" json:"displayName"`

// Status description for the current product license status.
StatusDescription *string `mandatory:"false" json:"statusDescription"`

// The total number of licenses available for the product license, calculated by adding up all the license counts for
active license records associated with the product license.
TotalActiveLicenseUnitCount *int `mandatory:"false" json:"totalActiveLicenseUnitCount"`

// The current product license state.
LifecycleState LifeCycleStateEnum
`mandatory:"false" json:"lifecycleState,omitempty"`

// The number of license units consumed. Updated after each allocation run.
TotalLicenseUnitsConsumed *float64 `mandatory:"false" json:"totalLicenseUnitsConsumed"`

// The number of license records associated with the product license.
TotalLicenseRecordCount *int `mandatory:"false" json:"totalLicenseRecordCount"`

// The number of active license records associated with the product license.
ActiveLicenseRecordCount *int `mandatory:"false" json:"activeLicenseRecordCount"`

// Specifies whether or not the product license is oversubscribed.
IsOverSubscribed *bool `mandatory:"false" json:"isOverSubscribed"`

// Specifies if the license unit count is unlimited.
IsUnlimited *bool `mandatory:"false" json:"isUnlimited"`

// The vendor of the ProductLicense
VendorName *string `mandatory:"false" json:"vendorName"`

// The time the product license was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted
datetime string.
TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

// The time the product license was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`
```

```
 // The images associated with the product license.
 Images []ImageResponse `mandatory:"false" json:"images"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags
 map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m ProductLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState));
 !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// TopUtilizedProductLicenseSummary A summary of the top utilized product licenses.
type TopUtilizedProductLicenseSummary struct {

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 ProductLicenseId *string `mandatory:"true" json:"productLicenseId"`

 //
 The product type.
 ProductType *string `mandatory:"true" json:"productType"`

 // The product license unit.
 UnitType LicenseUnitEnum `mandatory:"true" json:"unitType"`

 // Number of license units consumed.
 TotalUnitsConsumed *float64 `mandatory:"true" json:"totalUnitsConsumed"`

 // Total number of license units in the product license provided by the user.
 TotalLicenseUnitCount *int `mandatory:"true" json:"totalLicenseUnitCount"`

 // Specifies if the license unit count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The current product license status.
 Status StatusEnum `mandatory:"true" json:"status"`
}

func (m TopUtilizedProductLicenseSummary) String() string {
 return common.PointerString(m)
```

```
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m TopUtilizedProductLicenseSummary)
 ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseUnitEnum(string(m.UnitType)); !ok && m.UnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for UnitType: %s. Supported values are:
%s.", m.UnitType, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if _, ok := GetMappingStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
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// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "strings"
)

// LicenseSortByEnum Enum with underlying type: string
type LicenseSortByEnum string

// Set of constants representing the allowable values for LicenseSortByEnum
const (
 LicenseSortByLicenseType LicenseSortByEnum = "licenseType"
 LicenseSortByDisplayName LicenseSortByEnum = "displayName"
)
```

```
var mappingLicenseSortByEnum = map[string]LicenseSortByEnum{
 "licenseType": LicenseSortByLicenseType,
 "displayName":
 LicenseSortByDisplayName,
}

var mappingLicenseSortByEnumLowerCase = map[string]LicenseSortByEnum{
 "licensetype": LicenseSortByLicenseType,
 "displayname": LicenseSortByDisplayName,
}

// GetLicenseSortByEnumValues Enumerates the set of values for LicenseSortByEnum
func GetLicenseSortByEnumValues() []LicenseSortByEnum {
 values := make([]LicenseSortByEnum, 0)
 for _, v := range mappingLicenseSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseSortByEnumStringValues Enumerates the set of values in String for LicenseSortByEnum
func GetLicenseSortByEnumStringValues() []string {
 return []string{
  "licenseType",
  "displayName",
 }
}

// GetMappingLicenseSortByEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingLicenseSortByEnum(val string) (LicenseSortByEnum, bool) {
 enum, ok := mappingLicenseSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
```

```
)

// GetJavaLicenseRequest wrapper for the GetJavaLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/jmsjavadownloads/GetJavaLicense.go.html
to see an example of how to use GetJavaLicenseRequest.
type GetJavaLicenseRequest struct {

 // Unique Java license type.
 LicenseType GetJavaLicenseLicenseTypeEnum `mandatory:"true" contributesTo:"path" name:"licenseType"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header"
 name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetJavaLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetJavaLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetJavaLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves
 the specified retry policy.
func (request GetJavaLicenseRequest) RetryPolicy() *common.RetryPolicy {
```

```
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetJavaLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingGetJavaLicenseLicenseTypeEnum(string(request.LicenseType)); !ok &&
request.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", request.LicenseType, strings.Join(GetGetJavaLicenseLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetJavaLicenseResponse wrapper for the GetJavaLicense operation
type GetJavaLicenseResponse struct
 {

 // The underlying http response
 RawResponse *http.Response

 // The JavaLicense instance
 JavaLicense `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetJavaLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetJavaLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// GetJavaLicenseLicenseTypeEnum Enum with underlying type: string
type GetJavaLicenseLicenseTypeEnum string

// Set of constants representing the allowable values for GetJavaLicenseLicenseTypeEnum
const (
```

```
 GetJavaLicenseLicenseTypeOtn        GetJavaLicenseLicenseTypeEnum = "OTN"
 GetJavaLicenseLicenseTypeNftc       GetJavaLicenseLicenseTypeEnum = "NFTC"
 GetJavaLicenseLicenseTypeRestricted GetJavaLicenseLicenseTypeEnum
 = "RESTRICTED"
)

var mappingGetJavaLicenseLicenseTypeEnum = map[string]GetJavaLicenseLicenseTypeEnum{
 "OTN":        GetJavaLicenseLicenseTypeOtn,
 "NFTC":       GetJavaLicenseLicenseTypeNftc,
 "RESTRICTED": GetJavaLicenseLicenseTypeRestricted,
}

var mappingGetJavaLicenseLicenseTypeEnumLowerCase = map[string]GetJavaLicenseLicenseTypeEnum{
 "otn":        GetJavaLicenseLicenseTypeOtn,
 "nftc":       GetJavaLicenseLicenseTypeNftc,
 "restricted": GetJavaLicenseLicenseTypeRestricted,
}

// GetGetJavaLicenseLicenseTypeEnumValues Enumerates the set of values for GetJavaLicenseLicenseTypeEnum
func GetGetJavaLicenseLicenseTypeEnumValues() []GetJavaLicenseLicenseTypeEnum {
 values := make([]GetJavaLicenseLicenseTypeEnum, 0)
 for _, v := range mappingGetJavaLicenseLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetGetJavaLicenseLicenseTypeEnumStringValues Enumerates the set of values in String for
GetJavaLicenseLicenseTypeEnum
func GetGetJavaLicenseLicenseTypeEnumStringValues()
 []string {
 return []string{
  "OTN",
  "NFTC",
  "RESTRICTED",
 }
}

// GetMappingGetJavaLicenseLicenseTypeEnum performs case Insensitive comparison on enum value and return
the desired enum
func GetMappingGetJavaLicenseLicenseTypeEnum(val string) (GetJavaLicenseLicenseTypeEnum, bool) {
 enum, ok := mappingGetJavaLicenseLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
```
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```
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// UpdateProductLicenseRequest wrapper for the UpdateProductLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/UpdateProductLicense.go.html to see an example of how to use
UpdateProductLicenseRequest.
type UpdateProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The list of images that needs to be updated.
 UpdateProductLicenseDetails
 `contributesTo:"body"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the
 OCIRequest interface
func (request UpdateProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
```

```
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request UpdateProductLicenseRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function
 directly
func (request UpdateProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateProductLicenseResponse wrapper for the UpdateProductLicense operation
type UpdateProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
```

```
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response UpdateProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateProductLicenseResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
```

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// Code generated. DO NOT EDIT.

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ListTopUtilizedProductLicensesRequest wrapper for the ListTopUtilizedProductLicenses operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/ListTopUtilizedProductLicenses.go.html to see an example of how to use ListTopUtilizedProductLicensesRequest.
type ListTopUtilizedProductLicensesRequest struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) used for the license record, product license, and configuration.
 CompartmentId
 *string `mandatory:"true" contributesTo:"query" name:"compartmentId"`

 // The maximum number of items to return.
 Limit *int `mandatory:"false" contributesTo:"query" name:"limit"`

 // A token representing the position at which to start retrieving results. This must come from the `opc-next-page` header field of a previous response.
 Page *string `mandatory:"false" contributesTo:"query" name:"page"`
```

```
 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Indicates if the given compartment is the root compartment.
 IsCompartmentIdInSubtree *bool `mandatory:"false" contributesTo:"query" name:"isCompartmentIdInSubtree"`

 // The sort order to use, whether `ASC` or `DESC`.
 SortOrder ListTopUtilizedProductLicensesSortOrderEnum `mandatory:"false" contributesTo:"query"
name:"sortOrder"
 omitEmpty:"true"`

 // Specifies the attribute with which to sort the rules.
 // Default: `totalLicenseUnitsConsumed`
 // * **totalLicenseUnitsConsumed:** Sorts by totalLicenseUnitsConsumed of ProductLicense.
 SortBy ListTopUtilizedProductLicensesSortByEnum `mandatory:"false" contributesTo:"query" name:"sortBy"
omitEmpty:"true"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListTopUtilizedProductLicensesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListTopUtilizedProductLicensesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method,
 path, request, extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ListTopUtilizedProductLicensesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
```

```
func (request ListTopUtilizedProductLicensesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListTopUtilizedProductLicensesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingListTopUtilizedProductLicensesSortOrderEnum(string(request.SortOrder)); !ok &&
request.SortOrder != "" {
  errMessage = append(errMessage,
 fmt.Sprintf("unsupported enum value for SortOrder: %s. Supported values are: %s.", request.SortOrder,
strings.Join(GetListTopUtilizedProductLicensesSortOrderEnumStringValues(), ",")))
 }
 if _, ok := GetMappingListTopUtilizedProductLicensesSortByEnum(string(request.SortBy)); !ok &&
request.SortBy != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for SortBy: %s. Supported values are: %s.",
request.SortBy, strings.Join(GetListTopUtilizedProductLicensesSortByEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListTopUtilizedProductLicensesResponse wrapper for the ListTopUtilizedProductLicenses operation
type ListTopUtilizedProductLicensesResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // A list of TopUtilizedProductLicenseCollection instances
 TopUtilizedProductLicenseCollection `presentIn:"body"`

 // Unique Oracle-assigned identifier
 for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListTopUtilizedProductLicensesResponse) String() string {
 return common.PointerString(response)
```

```
}

// HTTPResponse implements the OCIResponse interface
func (response ListTopUtilizedProductLicensesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}

// ListTopUtilizedProductLicensesSortOrderEnum Enum with underlying type: string
type ListTopUtilizedProductLicensesSortOrderEnum string

// Set of constants representing the allowable values for ListTopUtilizedProductLicensesSortOrderEnum
const
 (
 ListTopUtilizedProductLicensesSortOrderAsc  ListTopUtilizedProductLicensesSortOrderEnum = "ASC"
 ListTopUtilizedProductLicensesSortOrderDesc ListTopUtilizedProductLicensesSortOrderEnum = "DESC"
)

var mappingListTopUtilizedProductLicensesSortOrderEnum =
map[string]ListTopUtilizedProductLicensesSortOrderEnum{
 "ASC":  ListTopUtilizedProductLicensesSortOrderAsc,
 "DESC": ListTopUtilizedProductLicensesSortOrderDesc,
}

var mappingListTopUtilizedProductLicensesSortOrderEnumLowerCase =
map[string]ListTopUtilizedProductLicensesSortOrderEnum{
 "asc":  ListTopUtilizedProductLicensesSortOrderAsc,
 "desc": ListTopUtilizedProductLicensesSortOrderDesc,
}

// GetListTopUtilizedProductLicensesSortOrderEnumValues Enumerates the set of values for
ListTopUtilizedProductLicensesSortOrderEnum
func GetListTopUtilizedProductLicensesSortOrderEnumValues() []ListTopUtilizedProductLicensesSortOrderEnum
{
 values := make([]ListTopUtilizedProductLicensesSortOrderEnum,
 0)
 for _, v := range mappingListTopUtilizedProductLicensesSortOrderEnum {
  values = append(values, v)
 }
 return values
}

// GetListTopUtilizedProductLicensesSortOrderEnumStringValues Enumerates the set of values in String for
ListTopUtilizedProductLicensesSortOrderEnum
func GetListTopUtilizedProductLicensesSortOrderEnumStringValues() []string {
 return []string{
  "ASC",
  "DESC",
 }
```

```
}

// GetMappingListTopUtilizedProductLicensesSortOrderEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListTopUtilizedProductLicensesSortOrderEnum(val string)
(ListTopUtilizedProductLicensesSortOrderEnum, bool) {
 enum, ok := mappingListTopUtilizedProductLicensesSortOrderEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}

// ListTopUtilizedProductLicensesSortByEnum Enum with underlying type: string
type ListTopUtilizedProductLicensesSortByEnum string

// Set of constants representing the allowable values for ListTopUtilizedProductLicensesSortByEnum
const
 (
 ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed ListTopUtilizedProductLicensesSortByEnum =
"totalLicenseUnitsConsumed"
)

var mappingListTopUtilizedProductLicensesSortByEnum =
map[string]ListTopUtilizedProductLicensesSortByEnum{
 "totalLicenseUnitsConsumed": ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed,
}

var mappingListTopUtilizedProductLicensesSortByEnumLowerCase =
map[string]ListTopUtilizedProductLicensesSortByEnum{
 "totallicenseunitsconsumed": ListTopUtilizedProductLicensesSortByTotallicenseunitsconsumed,
}

// GetListTopUtilizedProductLicensesSortByEnumValues Enumerates the set of values for
ListTopUtilizedProductLicensesSortByEnum
func GetListTopUtilizedProductLicensesSortByEnumValues() []ListTopUtilizedProductLicensesSortByEnum {
 values := make([]ListTopUtilizedProductLicensesSortByEnum, 0)
 for _, v := range mappingListTopUtilizedProductLicensesSortByEnum {
  values = append(values, v)
 }
 return values
}

// GetListTopUtilizedProductLicensesSortByEnumStringValues
 Enumerates the set of values in String for ListTopUtilizedProductLicensesSortByEnum
func GetListTopUtilizedProductLicensesSortByEnumStringValues() []string {
 return []string{
  "totalLicenseUnitsConsumed",
 }
}
```

```
// GetMappingListTopUtilizedProductLicensesSortByEnum performs case Insensitive comparison on enum value
and return the desired enum
func GetMappingListTopUtilizedProductLicensesSortByEnum(val string)
(ListTopUtilizedProductLicensesSortByEnum, bool) {
 enum, ok := mappingListTopUtilizedProductLicensesSortByEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
```

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// Code generated. DO NOT EDIT.

// GoldenGate API
//
// Use the Oracle Cloud Infrastructure GoldenGate APIs to perform data replication operations.
//

package goldengate

import (
 "strings"
)

// LicenseModelEnum Enum with underlying type: string
type LicenseModelEnum string

// Set of constants representing the allowable values for LicenseModelEnum
const (
 LicenseModelLicenseIncluded     LicenseModelEnum = "LICENSE_INCLUDED"
 LicenseModelBringYourOwnLicense LicenseModelEnum = "BRING_YOUR_OWN_LICENSE"
)
```

```
var mappingLicenseModelEnum = map[string]LicenseModelEnum{
 "LICENSE_INCLUDED":       LicenseModelLicenseIncluded,
 "BRING_YOUR_OWN_LICENSE": LicenseModelBringYourOwnLicense,
}

var
 mappingLicenseModelEnumLowerCase = map[string]LicenseModelEnum{
 "license_included":       LicenseModelLicenseIncluded,
 "bring_your_own_license": LicenseModelBringYourOwnLicense,
}

// GetLicenseModelEnumValues Enumerates the set of values for LicenseModelEnum
func GetLicenseModelEnumValues() []LicenseModelEnum {
 values := make([]LicenseModelEnum, 0)
 for _, v := range mappingLicenseModelEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseModelEnumStringValues Enumerates the set of values in String for LicenseModelEnum
func GetLicenseModelEnumStringValues() []string {
 return []string{
  "LICENSE_INCLUDED",
  "BRING_YOUR_OWN_LICENSE",
 }
}

// GetMappingLicenseModelEnum performs case Insensitive comparison on enum value and return the desired
enum
func GetMappingLicenseModelEnum(val string) (LicenseModelEnum, bool) {
 enum, ok := mappingLicenseModelEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager
```

```
import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateLicenseRecordDetails The details about updates in the license record.
type UpdateLicenseRecordDetails struct {

 // License record name.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true"
 json:"isPerpetual"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // The license record end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339)
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The number of license units added by a user in a license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 //
 Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateLicenseRecordDetails) String() string {
```

```
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateLicenseRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetProductLicenseRequest wrapper for the GetProductLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/GetProductLicense.go.html
to see an example of how to use GetProductLicenseRequest.
type GetProductLicenseRequest struct {

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"path" name:"productLicenseId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about
 a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
```

```
}

func (request GetProductLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetProductLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetProductLicenseRequest) BinaryRequestBody()
 (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetProductLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetProductLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetProductLicenseResponse wrapper for the GetProductLicense operation
type GetProductLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response
```

```
 // The ProductLicense instance
 ProductLicense `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag
 *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetProductLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetProductLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ChangeDomainLicenseTypeRequest wrapper for the ChangeDomainLicenseType operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/identity/ChangeDomainLicenseType.go.html to see an example of how to use
ChangeDomainLicenseTypeRequest.
type ChangeDomainLicenseTypeRequest struct {

 // The OCID of the identity domain.
 DomainId *string `mandatory:"true" contributesTo:"path" name:"domainId"`

 // The request object for an update to the license type of the identity domain.
```

```
 ChangeDomainLicenseTypeDetails
 `contributesTo:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations (e.g., if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // may be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated
 or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ChangeDomainLicenseTypeRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ChangeDomainLicenseTypeRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ChangeDomainLicenseTypeRequest)
 BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}
```

```
// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ChangeDomainLicenseTypeRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ChangeDomainLicenseTypeRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ChangeDomainLicenseTypeResponse wrapper for the ChangeDomainLicenseType operation
type ChangeDomainLicenseTypeResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the request.
 If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the work request.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`
}

func (response ChangeDomainLicenseTypeResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ChangeDomainLicenseTypeResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
```

```
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateProductLicenseDetails Details for creating a new product license.
type CreateProductLicenseDetails struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where product
licenses are created.
 CompartmentId *string `mandatory:"true"
 json:"compartmentId"`

 // Specifies if the product license vendor is Oracle or a third party.
 IsVendorOracle *bool `mandatory:"true" json:"isVendorOracle"`

 // Name of the product license.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"true" json:"licenseUnit"`

 // The product license vendor name, for example: Microsoft, RHEL, and so on.
 VendorName *string `mandatory:"false" json:"vendorName"`

 // The image details associated with the product license.
 Images []ImageDetails `mandatory:"false" json:"images"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{}
 `mandatory:"false" json:"definedTags"`
}

func (m CreateProductLicenseDetails) String() string {
 return common.PointerString(m)
```

```
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateProductLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Analytics API
//
// Analytics API.
//

package analytics

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeLicenseIncluded     LicenseTypeEnum = "LICENSE_INCLUDED"
 LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "LICENSE_INCLUDED":       LicenseTypeLicenseIncluded,
 "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
}
```

```
var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "license_included":
      LicenseTypeLicenseIncluded,
 "bring_your_own_license": LicenseTypeBringYourOwnLicense,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "LICENSE_INCLUDED",
  "BRING_YOUR_OWN_LICENSE",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// DeleteLicenseRecordRequest wrapper for the DeleteLicenseRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
```

```
examples/latest/licensemanager/DeleteLicenseRecord.go.html to see an example of how to use
DeleteLicenseRecordRequest.
type DeleteLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle
 about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call for a resource, set the `if-match`
 // parameter to the value of the etag from a previous GET or POST response for that resource.  The resource
 // will be updated or deleted only if the etag you provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request DeleteLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request DeleteLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
 *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request DeleteLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request DeleteLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
```

```
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request DeleteLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if
 len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// DeleteLicenseRecordResponse wrapper for the DeleteLicenseRecord operation
type DeleteLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response DeleteLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response DeleteLicenseRecordResponse)
 HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
```

```
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseConsumerSummary Details of a resource that is consuming a particular product license.
type ProductLicenseConsumerSummary struct {

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the resource.
 ResourceId *string `mandatory:"true"
 json:"resourceId"`

 // The display name of the resource.
 ResourceName *string `mandatory:"true" json:"resourceName"`

 // The resource product name.
 ProductName *string `mandatory:"true" json:"productName"`

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the compartment that
contains the resource.
 ResourceCompartmentId *string `mandatory:"true" json:"resourceCompartmentId"`

 // The display name of the compartment that contains the resource.
 ResourceCompartmentName *string `mandatory:"true" json:"resourceCompartmentName"`

 // The unit type for the resource.
 ResourceUnitType ResourceUnitEnum `mandatory:"true" json:"resourceUnitType"`

 // Number of units of the resource
 ResourceUnitCount *float64 `mandatory:"true" json:"resourceUnitCount"`

 // The product license unit.
 LicenseUnitType LicenseUnitEnum `mandatory:"true" json:"licenseUnitType"`

 // Number of license units consumed by the resource.
 LicenseUnitsConsumed *float64 `mandatory:"true"
 json:"licenseUnitsConsumed"`

 // Specifies if the base license is available.
 IsBaseLicenseAvailable *bool `mandatory:"true" json:"isBaseLicenseAvailable"`
```

```
 // Specifies if all options are available.
 AreAllOptionsAvailable *bool `mandatory:"true" json:"areAllOptionsAvailable"`

 // Collection of missing product licenses.
 MissingProducts []Product `mandatory:"true" json:"missingProducts"`
}

func (m ProductLicenseConsumerSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseConsumerSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingResourceUnitEnum(string(m.ResourceUnitType)); !ok && m.ResourceUnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for ResourceUnitType:
 %s. Supported values are: %s.", m.ResourceUnitType, strings.Join(GetResourceUnitEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnitType)); !ok && m.LicenseUnitType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnitType: %s. Supported values
are: %s.", m.LicenseUnitType, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
```

```
 "strings"
)

// UpdateLicenseAutoAssignConfigDetails Change the details of a LICENSE_AUTO_ASSIGN configuration.
type UpdateLicenseAutoAssignConfigDetails struct {

 // The display name of the configuration.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false"
 json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // License edition.
 License LicenseTypeEnum `mandatory:"false" json:"license,omitempty"`
}

// GetDisplayName returns DisplayName
func (m UpdateLicenseAutoAssignConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetFreeformTags returns FreeformTags
func (m UpdateLicenseAutoAssignConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m UpdateLicenseAutoAssignConfigDetails) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

func (m UpdateLicenseAutoAssignConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called
 during constructing API request process
// Not recommended for calling this function directly
func (m UpdateLicenseAutoAssignConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
```

```
 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m UpdateLicenseAutoAssignConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeUpdateLicenseAutoAssignConfigDetails UpdateLicenseAutoAssignConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeUpdateLicenseAutoAssignConfigDetails
 }{
  "LICENSE_AUTO_ASSIGN",
  (MarshalTypeUpdateLicenseAutoAssignConfigDetails)(m),
 }

 return
 json.Marshal(&s)
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// CreateLicenseRecordRequest wrapper for the CreateLicenseRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/CreateLicenseRecord.go.html to see an example of how to use
CreateLicenseRecordRequest.
type CreateLicenseRecordRequest struct {
```

```
 // Details needed to create a new license record.
 CreateLicenseRecordDetails `contributesTo:"body"`

 // Unique product license identifier.
 ProductLicenseId *string `mandatory:"true" contributesTo:"query" name:"productLicenseId"`

 //
 The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or server error without
 // risk of executing that same action again. Retry tokens expire after 24 hours, but can be invalidated before
 // then due to conflicting operations (for example, if a resource has been deleted and purged from the system,
 // then a retry of the original creation request might be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request CreateLicenseRecordRequest)
 String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request CreateLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request CreateLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
```

```
func (request CreateLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function
 is being called during constructing API request process
// Not recommended for calling this function directly
func (request CreateLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// CreateLicenseRecordResponse wrapper for the CreateLicenseRecord operation
type CreateLicenseRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query the status of the
asynchronous operation.
 OpcWorkRequestId *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request,
 please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // Location of the resource.
 Location *string `presentIn:"header" name:"location"`
}

func (response CreateLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response CreateLicenseRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
```

```
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseRecordSummary The license record summary.
type LicenseRecordSummary struct {

 // The license record OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm).
 Id *string `mandatory:"true" json:"id"`

 // License record display name. Avoid entering confidential
 information.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // Specifies if the license count is unlimited.
 IsUnlimited *bool `mandatory:"true" json:"isUnlimited"`

 // Specifies if the license record term is perpertual.
 IsPerpetual *bool `mandatory:"true" json:"isPerpetual"`

 // The product license OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) with which the
license record is associated.
 ProductLicenseId *string `mandatory:"false" json:"productLicenseId"`

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where the
license record is created.
 CompartmentId *string `mandatory:"false" json:"compartmentId"`

 // The license record product ID.
 ProductId *string `mandatory:"false" json:"productId"`
```

```
 // The number of license record units added by the user for the given license record.
 // Default 1
 LicenseCount *int `mandatory:"false" json:"licenseCount"`

 // The license record end date
 in RFC 3339 (https://tools.ietf.org/html/rfc3339) format.
 // date format.
 // Example: `2018-09-12`
 ExpirationDate *common.SDKTime `mandatory:"false" json:"expirationDate"`

 // The license record support end date in RFC 3339 (https://tools.ietf.org/html/rfc3339) format.
 // date format.
 // Example: `2018-09-12`
 SupportEndDate *common.SDKTime `mandatory:"false" json:"supportEndDate"`

 // The time the license record was created. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the license record was updated. An RFC 3339 (https://tools.ietf.org/html/rfc3339)-formatted datetime
string.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // The current license record state.
 LifecycleState LifeCycleStateEnum `mandatory:"false" json:"lifecycleState,omitempty"`

 // The product license unit.
 LicenseUnit LicenseUnitEnum `mandatory:"false" json:"licenseUnit,omitempty"`

 //
 The product license name with which the license record is associated.
 ProductLicense *string `mandatory:"false" json:"productLicense"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`
}

func (m LicenseRecordSummary) String() string {
```

```
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
//
 This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseRecordSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingLifeCycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetLifeCycleStateEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseUnitEnum(string(m.LicenseUnit)); !ok && m.LicenseUnit != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseUnit: %s. Supported values are:
%s.", m.LicenseUnit, strings.Join(GetLicenseUnitEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Oracle Cloud VMware Solution API
//
// Use the Oracle Cloud VMware API to create SDDCs and manage ESXi hosts and software.
// For more information, see Oracle Cloud VMware Solution
(https://docs.oracle.com/iaas/Content/VMware/Concepts/ocvsoverview.htm).
//

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// HcxLicenseSummary HCX on-premise license information summary.
type HcxLicenseSummary struct {

 // HCX on-premise license key value.
```

```
 ActivationKey *string `mandatory:"true" json:"activationKey"`

 // status of HCX on-premise license.
 Status HcxLicenseStatusEnum `mandatory:"true" json:"status"`

 //
 Name of the system that consumed the HCX on-premise license
 SystemName *string `mandatory:"false" json:"systemName"`
}

func (m HcxLicenseSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m HcxLicenseSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingHcxLicenseStatusEnum(string(m.Status)); !ok && m.Status != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for Status: %s. Supported values are: %s.",
m.Status, strings.Join(GetHcxLicenseStatusEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

package ocvp

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// RefreshHcxLicenseStatusRequest wrapper for the RefreshHcxLicenseStatus operation
//
// # See also
//
```

```
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/ocvp/RefreshHcxLicenseStatus.go.html to
see an example of how to use RefreshHcxLicenseStatusRequest.
type RefreshHcxLicenseStatusRequest struct {

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the SDDC.
 SddcId *string `mandatory:"true" contributesTo:"path" name:"sddcId"`

 // A token that uniquely identifies a request
 so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations (for example, if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // may be rejected).
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // etag from a previous GET or POST response for that resource.
 // The resource will be updated or deleted only if the etag you
 // provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Unique identifier for the request. If you need to contact Oracle about a particular
 // request, please provide the request ID.
 OpcRequestId
 *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request RefreshHcxLicenseStatusRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request RefreshHcxLicenseStatusRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}
```

```
// BinaryRequestBody implements the OCIRequest interface
func (request RefreshHcxLicenseStatusRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

//
 RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request RefreshHcxLicenseStatusRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request RefreshHcxLicenseStatusRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// RefreshHcxLicenseStatusResponse wrapper for the RefreshHcxLicenseStatus operation
type RefreshHcxLicenseStatusResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the asynchronous request. You can use this to query status of the
asynchronous operation.
 OpcWorkRequestId
 *string `presentIn:"header" name:"opc-work-request-id"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response RefreshHcxLicenseStatusResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response RefreshHcxLicenseStatusResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
```

```
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and service
limits, see Tagging (https://docs.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and Service
Limits (https://docs.oracle.com/iaas/Content/General/Concepts/servicelimits.htm). For
 information about creating, modifying, and deleting identity domains, see Identity and Access Management (with
identity domains) (https://docs.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// AllowedDomainLicenseTypeSummary (For tenancies that support identity domains) The
'AllowedDomainLicenseTypeSummary' object contains information about the license type of the identity domain.
type AllowedDomainLicenseTypeSummary struct {

 // The license type name.
 // Example: "Oracle Apps Premium"
 Name *string `mandatory:"true" json:"name"`

 // The license type identifier.
 // Example: "oracle-apps-premium"
 LicenseType *string `mandatory:"true" json:"licenseType"`

 // The license type description.
 Description *string `mandatory:"true" json:"description"`
}

func (m AllowedDomainLicenseTypeSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing
```

```
 an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m AllowedDomainLicenseTypeSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Identity and Access Management Service API
//
// Use the Identity and Access Management Service API to manage users, groups, identity domains, compartments,
policies, tagging, and limits. For information about managing users, groups, compartments, and policies, see Identity
and Access Management (without identity domains)
(https://docs.oracle.com/iaas/Content/Identity/Concepts/overview.htm). For information about tagging and service
limits, see Tagging (https://docs.oracle.com/iaas/Content/Tagging/Concepts/taggingoverview.htm) and Service
Limits (https://docs.oracle.com/iaas/Content/General/Concepts/servicelimits.htm). For
 information about creating, modifying, and deleting identity domains, see Identity and Access Management (with
identity domains) (https://docs.oracle.com/iaas/Content/Identity/home.htm).
//

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ChangeDomainLicenseTypeDetails (For tenancies that support identity domains) Details for updating the license
type of the identity domain.
type ChangeDomainLicenseTypeDetails struct {

 // The license type of the identity domain.
 LicenseType *string `mandatory:"false" json:"licenseType"`
}

func (m ChangeDomainLicenseTypeDetails) String() string {
 return common.PointerString(m)
}
```

```
// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ChangeDomainLicenseTypeDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage)
 > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
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// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseAutoAssignConfigDetails A configuration of the LICENSE_AUTO_ASSIGN type, consists of an
enumeration value which
// indicates which license should be assigned by default to new resources.
type LicenseAutoAssignConfigDetails struct {

 // The Unique Oracle ID (OCID) that is immutable on creation.
 Id *string `mandatory:"true" json:"id"`

 // The OCID of the compartment containing the configuration.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 //
 A user-friendly name. Does not have to be unique, and it's changeable. Avoid entering confidential information.
 DisplayName *string `mandatory:"false" json:"displayName"`
```

```
 // The time the configuration was created. An RFC3339 formatted datetime string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the Config was updated.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud":
 {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`

 // The current state of the configuration.
 LifecycleState ConfigLifecycleStateEnum `mandatory:"true" json:"lifecycleState"`

 // License edition.
 License LicenseTypeEnum `mandatory:"true" json:"license"`
}

// GetId returns Id
func (m LicenseAutoAssignConfigDetails) GetId() *string {
 return m.Id
}

// GetCompartmentId returns CompartmentId
func (m LicenseAutoAssignConfigDetails) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetDisplayName returns DisplayName
func (m LicenseAutoAssignConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetTimeCreated returns TimeCreated
func (m LicenseAutoAssignConfigDetails) GetTimeCreated() *common.SDKTime {
 return m.TimeCreated
}

// GetTimeUpdated returns TimeUpdated
```

```
func (m LicenseAutoAssignConfigDetails) GetTimeUpdated() *common.SDKTime {
 return m.TimeUpdated
}

// GetLifecycleState returns
 LifecycleState
func (m LicenseAutoAssignConfigDetails) GetLifecycleState() ConfigLifecycleStateEnum {
 return m.LifecycleState
}

// GetFreeformTags returns FreeformTags
func (m LicenseAutoAssignConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m LicenseAutoAssignConfigDetails) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

// GetSystemTags returns SystemTags
func (m LicenseAutoAssignConfigDetails) GetSystemTags() map[string]map[string]interface{} {
 return m.SystemTags
}

func (m LicenseAutoAssignConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseAutoAssignConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok
 := GetMappingConfigLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetConfigLifecycleStateEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
```

```
}

// MarshalJSON marshals to json representation
func (m LicenseAutoAssignConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeLicenseAutoAssignConfigDetails LicenseAutoAssignConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeLicenseAutoAssignConfigDetails
 }{
  "LICENSE_AUTO_ASSIGN",
  (MarshalTypeLicenseAutoAssignConfigDetails)(m),
 }

 return
 json.Marshal(&s)
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// BulkUploadLicenseRecordsRequest wrapper for the BulkUploadLicenseRecords operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/licensemanager/BulkUploadLicenseRecords.go.html to see an example of how to use
BulkUploadLicenseRecordsRequest.
type BulkUploadLicenseRecordsRequest struct {

 // Details required for the bulk upload of product licenses and license records.
 BulkUploadLicenseRecordsDetails `contributesTo:"body"`

 // The unique Oracle-assigned identifier for the
 request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`
```

```
 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request BulkUploadLicenseRecordsRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request BulkUploadLicenseRecordsRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func
 (request BulkUploadLicenseRecordsRequest) BinaryRequestBody() (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request BulkUploadLicenseRecordsRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request BulkUploadLicenseRecordsRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// BulkUploadLicenseRecordsResponse wrapper for the BulkUploadLicenseRecords operation
type BulkUploadLicenseRecordsResponse struct {
```

```
 // The underlying http response
 RawResponse *http.Response

 // The BulkUploadResponse
 instance
 BulkUploadResponse `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response BulkUploadLicenseRecordsResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response BulkUploadLicenseRecordsResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateLicenseAutoAssignConfigDetails The details of a LICENSE_AUTO_ASSIGN configuration.
type CreateLicenseAutoAssignConfigDetails struct {

 // Compartment in which the configuration is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // The display name of the configuration.
 DisplayName *string `mandatory:"false" json:"displayName"`
```

```
 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for
 cross-compatibility only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // License edition.
 License LicenseTypeEnum `mandatory:"true" json:"license"`
}

// GetDisplayName returns DisplayName
func (m CreateLicenseAutoAssignConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetCompartmentId returns CompartmentId
func (m CreateLicenseAutoAssignConfigDetails) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetFreeformTags returns FreeformTags
func (m CreateLicenseAutoAssignConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m CreateLicenseAutoAssignConfigDetails) GetDefinedTags() map[string]map[string]interface{}
 {
 return m.DefinedTags
}

func (m CreateLicenseAutoAssignConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateLicenseAutoAssignConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
```

```
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m CreateLicenseAutoAssignConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeCreateLicenseAutoAssignConfigDetails
 CreateLicenseAutoAssignConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeCreateLicenseAutoAssignConfigDetails
 }{
  "LICENSE_AUTO_ASSIGN",
  (MarshalTypeCreateLicenseAutoAssignConfigDetails)(m),
 }

 return json.Marshal(&s)
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// TopUtilizedProductLicenseCollection A collection of top utilized product licenses.
type TopUtilizedProductLicenseCollection struct {

 // Collection of top utilized product licenses.
 Items []TopUtilizedProductLicenseSummary `mandatory:"true" json:"items"`
}
```

```
func (m TopUtilizedProductLicenseCollection)
 String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m TopUtilizedProductLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateLicenseEnterpriseExtensibilityConfigDetails The details of a LICENSE_ENTERPRISE_EXTENSIBILITY
configuration.
type CreateLicenseEnterpriseExtensibilityConfigDetails struct {

 // Compartment in which the configuration is created.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // True if enterprise extensibility is enabled, false if it is not enabled.
 IsEnabled *bool `mandatory:"true" json:"isEnabled"`

 // The display name of the configuration.
 DisplayName
```

```
 *string `mandatory:"false" json:"displayName"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

// GetDisplayName returns DisplayName
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetCompartmentId returns CompartmentId
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetFreeformTags returns FreeformTags
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

//
 GetDefinedTags returns DefinedTags
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

func (m CreateLicenseEnterpriseExtensibilityConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

```
// MarshalJSON marshals to json representation
func (m CreateLicenseEnterpriseExtensibilityConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeCreateLicenseEnterpriseExtensibilityConfigDetails
CreateLicenseEnterpriseExtensibilityConfigDetails
 s := struct
 {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeCreateLicenseEnterpriseExtensibilityConfigDetails
 }{
  "LICENSE_ENTERPRISE_EXTENSIBILITY",
  (MarshalTypeCreateLicenseEnterpriseExtensibilityConfigDetails)(m),
 }

 return json.Marshal(&s)
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// GetLicenseRecordRequest wrapper for the GetLicenseRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/licensemanager/GetLicenseRecord.go.html
to see an example of how to use GetLicenseRecordRequest.
type GetLicenseRecordRequest struct {

 // Unique license record identifier.
 LicenseRecordId *string `mandatory:"true" contributesTo:"path" name:"licenseRecordId"`

 // The unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 //
 particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
```

```
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request GetLicenseRecordRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request GetLicenseRecordRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request GetLicenseRecordRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
 bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request GetLicenseRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request GetLicenseRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// GetLicenseRecordResponse wrapper for the GetLicenseRecord operation
type GetLicenseRecordResponse struct {

 // The underlying http response
```

```
 RawResponse *http.Response

 // The LicenseRecord instance
 LicenseRecord `presentIn:"body"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string
 `presentIn:"header" name:"etag"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response GetLicenseRecordResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response GetLicenseRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "strings"
)

// LicenseUnitEnum Enum with underlying type: string
type LicenseUnitEnum string

// Set of constants representing the allowable values for LicenseUnitEnum
const (
 LicenseUnitOcpu          LicenseUnitEnum = "OCPU"
 LicenseUnitNamedUserPlus LicenseUnitEnum = "NAMED_USER_PLUS"
 LicenseUnitProcessors    LicenseUnitEnum = "PROCESSORS"
```

```
)

var
 mappingLicenseUnitEnum = map[string]LicenseUnitEnum{
 "OCPU":           LicenseUnitOcpu,
 "NAMED_USER_PLUS": LicenseUnitNamedUserPlus,
 "PROCESSORS":     LicenseUnitProcessors,
}

var mappingLicenseUnitEnumLowerCase = map[string]LicenseUnitEnum{
 "ocpu":           LicenseUnitOcpu,
 "named_user_plus": LicenseUnitNamedUserPlus,
 "processors":     LicenseUnitProcessors,
}

// GetLicenseUnitEnumValues Enumerates the set of values for LicenseUnitEnum
func GetLicenseUnitEnumValues() []LicenseUnitEnum {
 values := make([]LicenseUnitEnum, 0)
 for _, v := range mappingLicenseUnitEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseUnitEnumStringValues Enumerates the set of values in String for LicenseUnitEnum
func GetLicenseUnitEnumStringValues() []string {
 return []string{
  "OCPU",
  "NAMED_USER_PLUS",
  "PROCESSORS",
 }
}

// GetMappingLicenseUnitEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseUnitEnum(val string)
 (LicenseUnitEnum, bool) {
 enum, ok := mappingLicenseUnitEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
```

```
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// BulkUploadLicenseRecordsDetails Details required for bulk uploading of license records.
type BulkUploadLicenseRecordsDetails struct {

 // The compartment OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) where license
records are created.
 CompartmentId *string
 `mandatory:"true" json:"compartmentId"`

 // Name of the file that is being uploaded.
 FileName *string `mandatory:"true" json:"fileName"`

 // The file to be uploaded.
 FileContent *string `mandatory:"true" json:"fileContent"`
}

func (m BulkUploadLicenseRecordsDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m BulkUploadLicenseRecordsDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
```

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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

```
package stackmonitoring

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// ManageLicenseRequest wrapper for the ManageLicense operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-examples/latest/stackmonitoring/ManageLicense.go.html to
see an example of how to use ManageLicenseRequest.
type ManageLicenseRequest struct {

 // The OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of monitored resource.
 MonitoredResourceId *string `mandatory:"true" contributesTo:"path" name:"monitoredResourceId"`

 // New license information.
 ManageLicenseDetails
 `contributesTo:"body"`

 // A token that uniquely identifies a request so it can be retried in case of a timeout or
 // server error without risk of executing that same action again. Retry tokens expire after 24
 // hours, but can be invalidated before then due to conflicting operations. For example, if a resource
 // has been deleted and purged from the system, then a retry of the original creation request
 // might be rejected.
 OpcRetryToken *string `mandatory:"false" contributesTo:"header" name:"opc-retry-token"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // etag from a previous GET or POST response for that resource.
 // The resource will be
 updated or deleted only if the etag you
 // provide matches the resource's current etag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}
```

```
func (request ManageLicenseRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ManageLicenseRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request ManageLicenseRequest) BinaryRequestBody()
 (*common.OCIReadSeekCloser, bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request ManageLicenseRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ManageLicenseRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ManageLicenseResponse wrapper for the ManageLicense operation
type ManageLicenseResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, please provide
```

```
 the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`
}

func (response ManageLicenseResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ManageLicenseResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// CreateJavaLicenseAcceptanceRecordDetails The attributes to create a new JavaLicenseAcceptanceRecord.
type CreateJavaLicenseAcceptanceRecordDetails struct {

 // The tenancy OCID (https://docs.oracle.com/iaas/Content/General/Concepts/identifiers.htm) of the user accepting
the license.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 //
 License type for the Java version.
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Status of license acceptance.
 LicenseAcceptanceStatus LicenseAcceptanceStatusEnum `mandatory:"true" json:"licenseAcceptanceStatus"`

 // Simple key-value pair that is applied without any predefined name, type, or scope. Exists for cross-compatibility
only.
```

```
 // Example: `{"bar-key": "value"}`. (See Managing Tags and Tag Namespaces
(https://docs.oracle.com/iaas/Content/Tagging/Concepts/understandingfreeformtags.htm).)
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`. (See Understanding Free-form Tags
(https://docs.oracle.com/iaas/Content/Tagging/Tasks/managingtagsandtagnamespaces.htm)).
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m CreateJavaLicenseAcceptanceRecordDetails)
 String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m CreateJavaLicenseAcceptanceRecordDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are:
%s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseAcceptanceStatusEnum(string(m.LicenseAcceptanceStatus)); !ok &&
m.LicenseAcceptanceStatus != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseAcceptanceStatus: %s.
Supported values are: %s.", m.LicenseAcceptanceStatus,
strings.Join(GetLicenseAcceptanceStatusEnumStringValues(),
 ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//
```

```
package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateProductLicenseDetails Updates the product license object (only allows image updates).
type UpdateProductLicenseDetails struct {

 // The image details associated with the product license.
 Images []ImageDetails `mandatory:"true" json:"images"`

 // Simple key-value pair that is
 applied without any predefined name, type, or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`
}

func (m UpdateProductLicenseDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateProductLicenseDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
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// Code generated. DO NOT EDIT.

// Access Governance APIs
//
```

```
// Use the Oracle Access Governance API to create, view, and manage GovernanceInstances.
//

package accessgovernancecp

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeNewLicense          LicenseTypeEnum = "NEW_LICENSE"
 LicenseTypeBringYourOwnLicense LicenseTypeEnum = "BRING_YOUR_OWN_LICENSE"
 LicenseTypeAgOracleWorkloads   LicenseTypeEnum = "AG_ORACLE_WORKLOADS"
 LicenseTypeAgOci               LicenseTypeEnum = "AG_OCI"
)

var mappingLicenseTypeEnum
 = map[string]LicenseTypeEnum{
 "NEW_LICENSE":            LicenseTypeNewLicense,
 "BRING_YOUR_OWN_LICENSE": LicenseTypeBringYourOwnLicense,
 "AG_ORACLE_WORKLOADS":    LicenseTypeAgOracleWorkloads,
 "AG_OCI":                 LicenseTypeAgOci,
}

var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "new_license":            LicenseTypeNewLicense,
 "bring_your_own_license": LicenseTypeBringYourOwnLicense,
 "ag_oracle_workloads":    LicenseTypeAgOracleWorkloads,
 "ag_oci":                 LicenseTypeAgOci,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "NEW_LICENSE",
```

```
  "BRING_YOUR_OWN_LICENSE",
  "AG_ORACLE_WORKLOADS",
  "AG_OCI",
 }
}

//
 GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Oracle Content Management API
//
// Oracle Content Management is a cloud-based content hub to drive omni-channel content management and
accelerate experience delivery
//

package oce

import (
 "strings"
)

// LicenseTypeEnum Enum with underlying type: string
type LicenseTypeEnum string

// Set of constants representing the allowable values for LicenseTypeEnum
const (
 LicenseTypeNew     LicenseTypeEnum = "NEW"
 LicenseTypeByol    LicenseTypeEnum = "BYOL"
 LicenseTypePremium LicenseTypeEnum = "PREMIUM"
 LicenseTypeStarter LicenseTypeEnum = "STARTER"
)

var mappingLicenseTypeEnum = map[string]LicenseTypeEnum{
 "NEW":     LicenseTypeNew,
 "BYOL":
    LicenseTypeByol,
 "PREMIUM": LicenseTypePremium,
 "STARTER": LicenseTypeStarter,
}
```

```
var mappingLicenseTypeEnumLowerCase = map[string]LicenseTypeEnum{
 "new":     LicenseTypeNew,
 "byol":    LicenseTypeByol,
 "premium": LicenseTypePremium,
 "starter": LicenseTypeStarter,
}

// GetLicenseTypeEnumValues Enumerates the set of values for LicenseTypeEnum
func GetLicenseTypeEnumValues() []LicenseTypeEnum {
 values := make([]LicenseTypeEnum, 0)
 for _, v := range mappingLicenseTypeEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseTypeEnumStringValues Enumerates the set of values in String for LicenseTypeEnum
func GetLicenseTypeEnumStringValues() []string {
 return []string{
  "NEW",
  "BYOL",
  "PREMIUM",
  "STARTER",
 }
}

// GetMappingLicenseTypeEnum performs case Insensitive comparison on enum value and return the desired enum
func GetMappingLicenseTypeEnum(val string) (LicenseTypeEnum, bool) {
 enum, ok := mappingLicenseTypeEnumLowerCase[strings.ToLower(val)]
 return
 enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package identity

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)
```

```
// ListAllowedDomainLicenseTypesRequest wrapper for the ListAllowedDomainLicenseTypes operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/identity/ListAllowedDomainLicenseTypes.go.html to see an example of how to use
ListAllowedDomainLicenseTypesRequest.
type ListAllowedDomainLicenseTypesRequest struct {

 // The license type of the identity domain.
 CurrentLicenseTypeName *string `mandatory:"false" contributesTo:"query" name:"currentLicenseTypeName"`

 // Unique Oracle-assigned
 identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request ListAllowedDomainLicenseTypesRequest) String() string {
 return common.PointerString(request)
}

// HTTPRequest implements the OCIRequest interface
func (request ListAllowedDomainLicenseTypesRequest) HTTPRequest(method, path string, binaryRequestBody
*common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements
 the OCIRequest interface
func (request ListAllowedDomainLicenseTypesRequest) BinaryRequestBody() (*common.OCIReadSeekCloser,
bool) {

 return nil, false

}

// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
```

```
func (request ListAllowedDomainLicenseTypesRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (request ListAllowedDomainLicenseTypesRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// ListAllowedDomainLicenseTypesResponse wrapper for the ListAllowedDomainLicenseTypes operation
type ListAllowedDomainLicenseTypesResponse struct {

 // The underlying http
 response
 RawResponse *http.Response

 // The []AllowedDomainLicenseTypeSummary instance
 Items []AllowedDomainLicenseTypeSummary `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact Oracle about a
 // particular request, please provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For pagination of a list of items. When paging through a list, if this header appears in the response,
 // then a partial list might have been returned. Include this value as the `page` parameter for the
 // subsequent GET request to get the next batch of items.
 OpcNextPage *string `presentIn:"header" name:"opc-next-page"`
}

func (response ListAllowedDomainLicenseTypesResponse) String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response ListAllowedDomainLicenseTypesResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.
```

```
// Marketplace Service API
//
// Use the Marketplace API to manage applications in Oracle Cloud Infrastructure Marketplace. For more
information, see Overview of Marketplace
(https://docs.oracle.com/iaas/Content/Marketplace/Concepts/marketoverview.htm)
//

package marketplace

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// Eula A base object for all types of end user license agreements.
type Eula interface {
}

type eula struct {
 JsonData []byte
 EulaType string `json:"eulaType"`
}

// UnmarshalJSON unmarshals json
func (m *eula) UnmarshalJSON(data []byte) error {
 m.JsonData = data
 type
 Unmarshalereula eula
 s := struct {
  Model Unmarshalereula
 }{}
 err := json.Unmarshal(data, &s.Model)
 if err != nil {
  return err
 }
 m.EulaType = s.Model.EulaType

 return err
}

// UnmarshalPolymorphicJSON unmarshals polymorphic json
func (m *eula) UnmarshalPolymorphicJSON(data []byte) (interface{}, error) {

 if data == nil || string(data) == "null" {
  return nil, nil
```

```
 }

 var err error
 switch m.EulaType {
 case "TEXT":
  mm := TextBasedEula{}
  err = json.Unmarshal(data, &mm)
  return mm, err
 default:
  common.Logf("Received unsupported enum value for Eula: %s.", m.EulaType)
  return *m, nil
 }
}

func (m eula) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m eula) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return
 true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
```

```
)

// JavaLicenseCollection Collection of the Java license summary objects.
type JavaLicenseCollection struct {

 // A list of JavaLicenseSummary objects.
 Items []JavaLicenseSummary `mandatory:"true" json:"items"`
}

func (m JavaLicenseCollection) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when
 providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m JavaLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

package jmsjavadownloads

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "net/http"
 "strings"
)

// UpdateJavaLicenseAcceptanceRecordRequest wrapper for the UpdateJavaLicenseAcceptanceRecord operation
//
// # See also
//
// Click https://docs.oracle.com/en-us/iaas/tools/go-sdk-
examples/latest/jmsjavadownloads/UpdateJavaLicenseAcceptanceRecord.go.html to see an example of how to use
UpdateJavaLicenseAcceptanceRecordRequest.
type UpdateJavaLicenseAcceptanceRecordRequest struct {
```

```
 // Unique Java license acceptance record identifier.
 JavaLicenseAcceptanceRecordId *string `mandatory:"true" contributesTo:"path"
name:"javaLicenseAcceptanceRecordId"`

 //
 Attributes for updating the JavaLicenseAcceptanceRecord.
 UpdateJavaLicenseAcceptanceRecordDetails `contributesTo:"body"`

 // For optimistic concurrency control. In the PUT or DELETE call
 // for a resource, set the `if-match` parameter to the value of the
 // ETag from a previous GET or POST response for that resource.
 // The resource will be updated or deleted only if the ETag you
 // provide matches the resource's current ETag value.
 IfMatch *string `mandatory:"false" contributesTo:"header" name:"if-match"`

 // The client request ID for tracing.
 OpcRequestId *string `mandatory:"false" contributesTo:"header" name:"opc-request-id"`

 // Metadata about the request. This information will not be transmitted to the service, but
 // represents information that the SDK will consume to drive retry behavior.
 RequestMetadata common.RequestMetadata
}

func (request UpdateJavaLicenseAcceptanceRecordRequest) String() string {
 return common.PointerString(request)
}

//
 HTTPRequest implements the OCIRequest interface
func (request UpdateJavaLicenseAcceptanceRecordRequest) HTTPRequest(method, path string,
binaryRequestBody *common.OCIReadSeekCloser, extraHeaders map[string]string) (http.Request, error) {

 _, err := request.ValidateEnumValue()
 if err != nil {
  return http.Request{}, err
 }
 return common.MakeDefaultHTTPRequestWithTaggedStructAndExtraHeaders(method, path, request,
extraHeaders)
}

// BinaryRequestBody implements the OCIRequest interface
func (request UpdateJavaLicenseAcceptanceRecordRequest) BinaryRequestBody()
(*common.OCIReadSeekCloser, bool) {

 return nil, false

}
```

```
// RetryPolicy implements the OCIRetryableRequest interface. This retrieves the specified retry policy.
func (request UpdateJavaLicenseAcceptanceRecordRequest) RetryPolicy() *common.RetryPolicy {
 return request.RequestMetadata.RetryPolicy
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called
 during constructing API request process
// Not recommended for calling this function directly
func (request UpdateJavaLicenseAcceptanceRecordRequest) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// UpdateJavaLicenseAcceptanceRecordResponse wrapper for the UpdateJavaLicenseAcceptanceRecord operation
type UpdateJavaLicenseAcceptanceRecordResponse struct {

 // The underlying http response
 RawResponse *http.Response

 // The JavaLicenseAcceptanceRecord instance
 JavaLicenseAcceptanceRecord `presentIn:"body"`

 // Unique Oracle-assigned identifier for the request. If you need to contact
 // Oracle about a particular request, provide the request ID.
 OpcRequestId *string `presentIn:"header" name:"opc-request-id"`

 // For optimistic concurrency control. See `if-match`.
 Etag *string `presentIn:"header" name:"etag"`
}

func (response UpdateJavaLicenseAcceptanceRecordResponse)
 String() string {
 return common.PointerString(response)
}

// HTTPResponse implements the OCIResponse interface
func (response UpdateJavaLicenseAcceptanceRecordResponse) HTTPResponse() *http.Response {
 return response.RawResponse
}
```

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```
// Code generated. DO NOT EDIT.

// Java Management Service Download API
//
// The APIs for the <a href="https://docs.oracle.com/en-us/iaas/jms/doc/java-download.html">Java Download</a>
feature of Java Management Service.
//

package jmsjavadownloads

import (
 "strings"
)

// LicenseAcceptanceStatusEnum Enum with underlying type: string
type LicenseAcceptanceStatusEnum string

// Set of constants representing the allowable values for LicenseAcceptanceStatusEnum
const (
 LicenseAcceptanceStatusAccepted LicenseAcceptanceStatusEnum = "ACCEPTED"
 LicenseAcceptanceStatusRevoked  LicenseAcceptanceStatusEnum = "REVOKED"
)

var mappingLicenseAcceptanceStatusEnum = map[string]LicenseAcceptanceStatusEnum{
 "ACCEPTED":
 LicenseAcceptanceStatusAccepted,
 "REVOKED":  LicenseAcceptanceStatusRevoked,
}

var mappingLicenseAcceptanceStatusEnumLowerCase = map[string]LicenseAcceptanceStatusEnum{
 "accepted": LicenseAcceptanceStatusAccepted,
 "revoked":  LicenseAcceptanceStatusRevoked,
}

// GetLicenseAcceptanceStatusEnumValues Enumerates the set of values for LicenseAcceptanceStatusEnum
func GetLicenseAcceptanceStatusEnumValues() []LicenseAcceptanceStatusEnum {
 values := make([]LicenseAcceptanceStatusEnum, 0)
 for _, v := range mappingLicenseAcceptanceStatusEnum {
  values = append(values, v)
 }
 return values
}

// GetLicenseAcceptanceStatusEnumStringValues Enumerates the set of values in String for
LicenseAcceptanceStatusEnum
func GetLicenseAcceptanceStatusEnumStringValues() []string {
 return []string{
  "ACCEPTED",
```

```
  "REVOKED",
 }
}

// GetMappingLicenseAcceptanceStatusEnum performs case Insensitive comparison on enum value and return the
desired enum
func
 GetMappingLicenseAcceptanceStatusEnum(val string) (LicenseAcceptanceStatusEnum, bool) {
 enum, ok := mappingLicenseAcceptanceStatusEnumLowerCase[strings.ToLower(val)]
 return enum, ok
}
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https://oss.oracle.com/licenses/upl or Apache License 2.0 as shown at http://www.apache.org/licenses/LICENSE-
2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// License Manager API
//
// Use the License Manager API to manage product licenses and license records. For more information, see License
Manager Overview (https://docs.oracle.com/iaas/Content/LicenseManager/Concepts/licensemanageroverview.htm).
//

package licensemanager

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// ProductLicenseCollection The product license summary collection.
type ProductLicenseCollection struct {

 // The product license summary collection.
 Items []ProductLicenseSummary `mandatory:"true" json:"items"`
}

func (m ProductLicenseCollection) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m ProductLicenseCollection) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
```

```
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}
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2.0. You may choose either license.
// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseEnterpriseExtensibilityConfigDetails A configuration of the LICENSE_ENTERPRISE_EXTENSIBILITY
type, consists of a boolean which determines
// whether enterprise extensibility is enabled.
type LicenseEnterpriseExtensibilityConfigDetails struct {

 // The Unique Oracle ID (OCID) that is immutable on creation.
 Id *string `mandatory:"true" json:"id"`

 // The OCID of the compartment containing the configuration.
 CompartmentId *string `mandatory:"true"
 json:"compartmentId"`

 // True if enterprise extensibility is enabled, false if it is not enabled.
 IsEnabled *bool `mandatory:"true" json:"isEnabled"`

 // A user-friendly name. Does not have to be unique, and it's changeable. Avoid entering confidential information.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // The time the configuration was created. An RFC3339 formatted datetime string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the Config was updated.
```

```
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{}
 `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`

 // The current state of the configuration.
 LifecycleState ConfigLifecycleStateEnum `mandatory:"true" json:"lifecycleState"`
}

// GetId returns Id
func (m LicenseEnterpriseExtensibilityConfigDetails) GetId() *string {
 return m.Id
}

// GetCompartmentId returns CompartmentId
func (m LicenseEnterpriseExtensibilityConfigDetails) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetDisplayName returns DisplayName
func (m LicenseEnterpriseExtensibilityConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetTimeCreated returns TimeCreated
func (m LicenseEnterpriseExtensibilityConfigDetails) GetTimeCreated() *common.SDKTime {
 return m.TimeCreated
}

// GetTimeUpdated returns TimeUpdated
func (m
 LicenseEnterpriseExtensibilityConfigDetails) GetTimeUpdated() *common.SDKTime {
 return m.TimeUpdated
}

// GetLifecycleState returns LifecycleState
func (m LicenseEnterpriseExtensibilityConfigDetails) GetLifecycleState() ConfigLifecycleStateEnum {
```

```
 return m.LifecycleState
}

// GetFreeformTags returns FreeformTags
func (m LicenseEnterpriseExtensibilityConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m LicenseEnterpriseExtensibilityConfigDetails) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

// GetSystemTags returns SystemTags
func (m LicenseEnterpriseExtensibilityConfigDetails) GetSystemTags() map[string]map[string]interface{} {
 return m.SystemTags
}

func (m LicenseEnterpriseExtensibilityConfigDetails) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing
 API request process
// Not recommended for calling this function directly
func (m LicenseEnterpriseExtensibilityConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingConfigLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState, strings.Join(GetConfigLifecycleStateEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m LicenseEnterpriseExtensibilityConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeLicenseEnterpriseExtensibilityConfigDetails LicenseEnterpriseExtensibilityConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeLicenseEnterpriseExtensibilityConfigDetails
 }{
  "LICENSE_ENTERPRISE_EXTENSIBILITY",
  (MarshalTypeLicenseEnterpriseExtensibilityConfigDetails)(m),
```

```
 }

 return
 json.Marshal(&s)
}
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// Code generated. DO NOT EDIT.

// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// LicenseAutoAssignConfigSummary Summary of a LICENSE_AUTO_ASSIGN configuration.
type LicenseAutoAssignConfigSummary struct {

 // Unique identifier that is immutable on creation.
 Id *string `mandatory:"true" json:"id"`

 // Compartment Identifier.
 CompartmentId *string `mandatory:"true" json:"compartmentId"`

 // Config Identifier, can be renamed.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // The time the the configuration was created.
 An RFC3339 formatted datetime string.
 TimeCreated *common.SDKTime `mandatory:"false" json:"timeCreated"`

 // The time the configuration was updated.
 TimeUpdated *common.SDKTime `mandatory:"false" json:"timeUpdated"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility
only.
 // Example: `{"bar-key": "value"}`
 FreeformTags map[string]string `mandatory:"false" json:"freeformTags"`
```

```
 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // Usage of system tag keys. These predefined keys are scoped to namespaces.
 // Example: `{"orcl-cloud": {"free-tier-retained": "true"}}`
 SystemTags map[string]map[string]interface{} `mandatory:"false" json:"systemTags"`

 // The current state of the configuration.
 LifecycleState ConfigLifecycleStateEnum `mandatory:"true"
 json:"lifecycleState"`

 // License edition.
 License LicenseTypeEnum `mandatory:"true" json:"license"`
}

// GetId returns Id
func (m LicenseAutoAssignConfigSummary) GetId() *string {
 return m.Id
}

// GetCompartmentId returns CompartmentId
func (m LicenseAutoAssignConfigSummary) GetCompartmentId() *string {
 return m.CompartmentId
}

// GetDisplayName returns DisplayName
func (m LicenseAutoAssignConfigSummary) GetDisplayName() *string {
 return m.DisplayName
}

// GetTimeCreated returns TimeCreated
func (m LicenseAutoAssignConfigSummary) GetTimeCreated() *common.SDKTime {
 return m.TimeCreated
}

// GetTimeUpdated returns TimeUpdated
func (m LicenseAutoAssignConfigSummary) GetTimeUpdated() *common.SDKTime {
 return m.TimeUpdated
}

// GetLifecycleState returns LifecycleState
func (m LicenseAutoAssignConfigSummary) GetLifecycleState() ConfigLifecycleStateEnum {
 return m.LifecycleState
}

// GetFreeformTags returns FreeformTags
```

```
func (m LicenseAutoAssignConfigSummary) GetFreeformTags()
 map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m LicenseAutoAssignConfigSummary) GetDefinedTags() map[string]map[string]interface{} {
 return m.DefinedTags
}

// GetSystemTags returns SystemTags
func (m LicenseAutoAssignConfigSummary) GetSystemTags() map[string]map[string]interface{} {
 return m.SystemTags
}

func (m LicenseAutoAssignConfigSummary) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m LicenseAutoAssignConfigSummary) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if _, ok := GetMappingConfigLifecycleStateEnum(string(m.LifecycleState)); !ok && m.LifecycleState != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LifecycleState: %s. Supported values
are: %s.", m.LifecycleState,
 strings.Join(GetConfigLifecycleStateEnumStringValues(), ",")))
 }
 if _, ok := GetMappingLicenseTypeEnum(string(m.License)); !ok && m.License != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for License: %s. Supported values are:
%s.", m.License, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }
 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m LicenseAutoAssignConfigSummary) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeLicenseAutoAssignConfigSummary LicenseAutoAssignConfigSummary
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeLicenseAutoAssignConfigSummary
 }{
  "LICENSE_AUTO_ASSIGN",
```

```
  (MarshalTypeLicenseAutoAssignConfigSummary)(m),
 }

 return json.Marshal(&s)
}
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// Code generated. DO NOT EDIT.

// Java Management Service Fleets API
//
// The APIs for the Fleet Management (https://docs.oracle.com/en-us/iaas/jms/doc/fleet-management.html) feature
of Java Management Service to monitor and manage the usage of Java in your enterprise. Use these APIs to manage
fleets, configure managed instances to report to fleets, and gain insights into the Java workloads running on these
instances by carrying out basic and advanced features.
//

package jms

import (
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// JavaLicense Information about a license type for Java.
type JavaLicense struct {

 // Commonly used name
 for the license type.
 DisplayName *string `mandatory:"true" json:"displayName"`

 // License Type
 LicenseType LicenseTypeEnum `mandatory:"true" json:"licenseType"`

 // Publicly accessible license URL containing the detailed terms and conditions.
 LicenseUrl *string `mandatory:"true" json:"licenseUrl"`
}

func (m JavaLicense) String() string {
 return common.PointerString(m)
}

// ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
```

```
func (m JavaLicense) ValidateEnumValue() (bool, error) {
 errMessage := []string{}
 if _, ok := GetMappingLicenseTypeEnum(string(m.LicenseType)); !ok && m.LicenseType != "" {
  errMessage = append(errMessage, fmt.Sprintf("unsupported enum value for LicenseType: %s. Supported values are: %s.", m.LicenseType, strings.Join(GetLicenseTypeEnumStringValues(), ",")))
 }

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage,
 "\n"))
 }
 return false, nil
}
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// Stack Monitoring API
//
// Stack Monitoring API.
//

package stackmonitoring

import (
 "encoding/json"
 "fmt"
 "github.com/oracle/oci-go-sdk/v65/common"
 "strings"
)

// UpdateLicenseEnterpriseExtensibilityConfigDetails Change the details of a LICENSE_ENTERPRISE_EXTENSIBILITY configuration.
type UpdateLicenseEnterpriseExtensibilityConfigDetails struct {

 // The display name of the configuration.
 DisplayName *string `mandatory:"false" json:"displayName"`

 // Simple key-value pair that is applied without any predefined name, type or scope. Exists for cross-compatibility only.
 // Example: `{"bar-key": "value"}`
 FreeformTags
 map[string]string `mandatory:"false" json:"freeformTags"`

 // Defined tags for this resource. Each key is predefined and scoped to a namespace.
 // Example: `{"foo-namespace": {"bar-key": "value"}}`
```

```
 DefinedTags map[string]map[string]interface{} `mandatory:"false" json:"definedTags"`

 // True if enterprise extensibility is enabled, false if it is not enabled.
 IsEnabled *bool `mandatory:"false" json:"isEnabled"`
}

// GetDisplayName returns DisplayName
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) GetDisplayName() *string {
 return m.DisplayName
}

// GetFreeformTags returns FreeformTags
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) GetFreeformTags() map[string]string {
 return m.FreeformTags
}

// GetDefinedTags returns DefinedTags
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) GetDefinedTags() map[string]map[string]interface{}
{
 return m.DefinedTags
}

func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) String() string {
 return common.PointerString(m)
}

//
 ValidateEnumValue returns an error when providing an unsupported enum value
// This function is being called during constructing API request process
// Not recommended for calling this function directly
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) ValidateEnumValue() (bool, error) {
 errMessage := []string{}

 if len(errMessage) > 0 {
  return true, fmt.Errorf(strings.Join(errMessage, "\n"))
 }
 return false, nil
}

// MarshalJSON marshals to json representation
func (m UpdateLicenseEnterpriseExtensibilityConfigDetails) MarshalJSON() (buff []byte, e error) {
 type MarshalTypeUpdateLicenseEnterpriseExtensibilityConfigDetails
UpdateLicenseEnterpriseExtensibilityConfigDetails
 s := struct {
  DiscriminatorParam string `json:"configType"`
  MarshalTypeUpdateLicenseEnterpriseExtensibilityConfigDetails
 }{
  "LICENSE_ENTERPRISE_EXTENSIBILITY",
```

```
 (MarshalTypeUpdateLicenseEnterpriseExtensibilityConfigDetails)(m),
}

return json.Marshal(&s)
}
```

1.5122 prometheus 0.303.1

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1.5125 github.com/aws/aws-sdk-go-v2/credentials 1.17.68

1.5125.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
```

```
  - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err =
addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
```

```
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return
 err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
```

```
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
```

run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt

compare

- name: License test

run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses are the same. Success."; exit 0; fi

DeleteLicense

Initialize stack step

spanInitializeStart

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

OperationInputValidation

spanInitializeEnd

Serialize stack step

spanBuildRequestStart

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

SetCredentialSourceMiddleware

UserAgent

AddTimeOffsetMiddleware

RecursionDetection

spanBuildRequestEnd

Finalize stack step

spanRetryLoop

Retry

RetryMetricsHeader

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper

RequestIDRetriever

OperationDeserializer

AddTimeOffsetMiddleware

RecordResponseTiming

RequestResponseLogger

```
ListLicenses
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
 err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
```

```
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options);
```

```
 err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err !=
nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err
```

```
 != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if
 err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
 //
 //   - ProductSKU
 //
```

```
//   - Fingerprint
//
//   - Status
Filters
[]types.Filter

// Amazon Resource Names (ARNs) of the licenses.
LicenseArns []string

// Maximum number of results to return in a single call.
MaxResults *int32

// Token for the next set of results.
NextToken *string

noSmithyDocumentSerde
}

type ListLicensesOutput struct {

// License details.
Licenses []types.License

// Token for the next set of results.
NextToken *string

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}
```

```
if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
```

```
 return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack);
 err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListLicenses",
 }
}
```

DisassociateLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckoutBorrowLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger

OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint

```
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
```

```
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err
!= nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options);
 err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return
 nil
}
```

```
func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
```

```
//
//
This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
```

```
 the license.
 LicenseMetadata []types.Metadata

 // Tags to add to the license. For more information about tagging support in
 // License Manager, see the [TagResource]operation.
 //
 // [TagResource]: https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html
 Tags []types.Tag

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err
= addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
```

```
 return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return
 err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CreateLicense",
 }
}
```

AWS SDK for Go
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AssociateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

```
import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
 // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
```

```
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
```

```
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
```

```
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options);
err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
```

```
 return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider": {
          "type": "operation",
          "input": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest"
          },
          "output": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse"
          },
          "errors": [
              {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
              },
              {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
              },
```

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions \n\t\t\tregistered to your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/DeregisterSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the subscription provider resource to deregister. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "

```
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
                }
            },
            "Operator": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
                "traits": {
                    "smithy.api#documentation": "<p>An operator for filtering results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type":
 "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest"
        },
        "output": {
            "target":
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
```

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Get details for a Bring Your Own License (BYOL) subscription that's
registered to your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetRegisteredSubscriptionProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation":
 "<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details for.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) for the BYOL registration
resource specified in the request.</p>"
                }
            },
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",

         "traits": {
                    "smithy.api#documentation": "<p>The subscription provider for the BYOL registration resource
specified \n\t\t\tin the request.</p>"
                }
            },
            "SecretArn": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL \n\t\t\tregistration resource specified in the request. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " The status of the Linux subscription provider access token from the last \n\t\t\tsuccessful subscription data request. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The detailed message from your subscription provider token status. "
}
},
"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time License Manager retrieved subscription details \n\t\t\tfrom your registered third-party Linux subscription provider. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},

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            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings for your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"

            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists
 the settings defined for Linux subscriptions discovery. The settings include if\n      Organizations integration has
been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
```

```
            }
        },
        "HomeRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
            }
        }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
    "type": "structure",
    "members": {
        "AmiId": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
            }
        },
        "InstanceID": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
            }
        },
        "InstanceType": {
            "target": "smithy.api#String",
            "traits":
 {
                "smithy.api#documentation": "<p>The instance type of the resource.</p>"
            }
        },
        "AccountID": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
            }
        },
        "Status": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status of the instance.</p>"
            }
        },
        "Region": {
            "target": "smithy.api#String",
            "traits": {
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"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the license subscription that the instance uses. "
}
},
"OsVersion": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The operating system software version that runs on your instance. "
}
},
"SubscriptionProviderCreateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp when you registered
the third-party Linux subscription \n\t\t\tprovider for the subscription that the instance uses. "
}
},

"SubscriptionProviderUpdateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that the instance synced with the registered \n\t\t\tthird-party Linux subscription provider. "
}
},
"DualSubscription": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Indicates that you have two different license subscriptions for \n\t\t\tthe same software on your instance. "
}
},
"RegisteredWithSubscriptionProvider": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Indicates that your instance uses a BYOL license subscription from \n\t\t\ta third-party Linux subscription provider that you've registered with License Manager. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation":
" An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {

"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {

"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager,
you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}

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        },
        "rules": [
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Endpoint"
                  }
                ]
              }
            ],
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      {
                        "ref": "UseFIPS"
                      },
                      true
                    ]
                  }

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                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
              },
              {
                "conditions": [],
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseDualStack"
                          },
                          true
                        ]

}
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
```

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                },
                {
                    "conditions": [],
                    "endpoint": {
                        "url": {
                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ],
            "type": "tree"

        }
        ],
        "type": "tree"
    },
    {
        "conditions": [],
        "rules": [
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                "conditions": [
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                        "fn": "isSet",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [
                            {

        "fn": "aws.partition",
                                "argv": [
                                    {
                                        "ref": "Region"
                                    }
                                ],
                                "assign": "PartitionResult"
                            }
                        ],
                        "rules": [
```

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                    {
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                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {

                        "ref": "UseFIPS"
                            },
                            true
                          ]
                        },
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }

],
                      "rules": [
                        {
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                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,
                                {
                                  "fn": "getAttr",
                                  "argv": [
                                    {
                                      "ref": "PartitionResult"

},
                                    "supportsFIPS"
                                  ]
                                }
                              ]
                            },
                            {
                              "fn": "booleanEquals",
                              "argv": [
                                true,
                                {
                                  "fn": "getAttr",
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"argv": [

{
"ref": "PartitionResult"
},
"supportsDualStack"
]
}
]
}
],
"rules": [
{
"conditions": [],

"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
}
],

"type": "tree"
}
],
"type": "tree"
},
{
"conditions": [],
"error": "FIPS and DualStack are enabled, but this partition does not support one or both",
"type": "error"
}
],
"type": "tree"
},
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [

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                    {
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                    true
                ]
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        ],
        "rules": [
            {
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"fn": "booleanEquals",
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                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            },
                            true

                    ]
                    }
                ],
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                        "conditions": [],
                        "rules": [
                            {
                                "conditions": [],
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fips.{Region}.{PartitionResult#dnsSuffix}",

    "properties": {},
                                    "headers": {}
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                                "type": "endpoint"
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                        ],
                        "type": "tree"
                    }
                ],
                "type": "tree"
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                    },
                    {
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                        "error": "FIPS is enabled
but this partition does not support FIPS",
                        "type": "error"
                    }
                ],
                "type": "tree"
            },
            {
                "conditions": [
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                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true

        ]
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                        "conditions": [
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                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {

                                            "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
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                                ]
                            }
                        ],
                        "rules": [
                            {
                                "conditions": [],
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{
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                    "properties": {},
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                            {
                                "conditions": [],
                                "error": "DualStack is enabled but this partition does not support DualStack",
                                "type": "error"
                            }
                        ],
                        "type": "tree"
                    },
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                        "conditions": [],
                        "rules": [
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                                "conditions": [],
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                    "properties": {},
                                    "headers": {}
                                },
                                "type": "endpoint"
                            }
                        ],
                        "type": "tree"
                    }
                ],
                "type": "tree"
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        ],
        "type": "tree"
    },
    {
```

```
                "conditions": [],
                "error": "Invalid Configuration: Missing Region",
                "type": "error"
            }
        ],
        "type": "tree"
    }
  ]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"

  }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {

   "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-east-1",
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"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{

"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",

"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-gov-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
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"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"

```
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
            }
        },
        "params": {
            "Region": "us-iso-east-1",
            "UseFIPS":
false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
```

"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"

```
            }
        },
        {
            "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {

            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips disabled and dualstack enabled",
            "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
            },
            "params": {

 "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "Missing region",
            "expect": {
                "error": "Invalid Configuration: Missing Region"
            }
        }
```

```
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"

 },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
    "type": "structure",
    "members": {
        "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "OrganizationIntegration": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
            "traits": {
                "smithy.api#documentation":
 "<p>Details if you have enabled resource discovery across your accounts in Organizations.</p>",
                "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
```

"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results by your specified criteria. \n \tFor example, you can specify <code>Region</code> in the <code>Name</code>, with the \n \t<code>contains</code> operator to list all subscriptions that match a partial string in the \n \t<code>Value</code>, such as <code>us-west</code>. \n For each filter, you can specify one of the following values for the <code>Name</code> key \n \tto streamline results: \n \n \n

```
<p>\n <code>AccountID</code>\n </p>\n </li>\n <li>\n <p>\n
<code>AmiID</code>\n </p>\n </li>\n <li>\n <p>\n
<code>DualSubscription</code>\n </p>\n </li>\n <li>\n <p>\n
<code>InstanceID</code>\n </p>\n </li>\n <li>\n <p>\n
<code>InstanceType</code>\n </p>\n </li>\n <li>\n <p>\n
<code>ProductCode</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Region</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Status</code>\n </p>\n </li>\n <li>\n <p>\n
<code>UsageOperation</code>\n </p>\n </li>\n </ul>\n <p>For each filter, you can use
one of the following <code>Operator</code>
 values to \n  \t\tdefine the behavior of the filter:</p>\n <ul>\n <li>\n <p>\n
<code>contains</code>\n </p>\n </li>\n <li>\n <p>\n
<code>equals</code>\n </p>\n </li>\n <li>\n <p>\n
<code>Notequal</code>\n </p>\n </li>\n </ul>"
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>The maximum items to return in a request.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>A token to specify where to
 start paginating. This \n\tis the nextToken from a previously truncated response.</p>",
                "smithy.api#length": {
                    "min": 1,
                    "max": 16384
                }
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
    "type": "structure",
    "members": {
        "Instances": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
            "traits": {
                "smithy.api#documentation": "<p>An array that contains instance objects.</p>"
            }
        },
```

"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",

"items": "Subscriptions"
}
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                  <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The
 valid Operators for this filter are:</p>\n         <ul>\n           <li>\n              <p>\n
<code>contains</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum items to return in a request.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This \n\tis
 the nextToken from a previously truncated response.</p>",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 16384
                    }
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
        "type": "structure",
        "members": {
            "Subscriptions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
                "traits": {
```

"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"

},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListRegisteredSubscriptionProviders"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",

"items": "RegisteredSubscriptionProviders"
}
}

},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest": {
"type": "structure",
"members": {
"SubscriptionProviderSources": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList",
"traits": {
"smithy.api#documentation": " To filter your results, specify which subscription providers to return \n\t\t\tin the list. "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. ",
"smithy.api#range": {
"min": 1,
"max": 100
}
}

},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis the nextToken from a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse": {
"type": "structure",
"members": {
"RegisteredSubscriptionProviders": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList",
"traits": {
"smithy.api#documentation": " The list of BYOL registration resources that fit the criteria \n\t\t\tyou specified in the request. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List the metadata tags that are assigned to the \n\t\t\tspecified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{resourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"resourceArn": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags for the requested resource. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {

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            "min": 1,
            "max": 20
          }
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration":
{
        "type": "string",
        "traits": {
          "smithy.api#enum": [
            {
              "name": "Enabled",
              "value": "Enabled",
              "documentation": "Enabled OrganizationIntegration"
            },
            {
              "name": "Disabled",
              "value": "Disabled",
              "documentation": "Disabled OrganizationIntegration"
            }
          ]
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider": {
        "type": "operation",
        "input": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest"
         },
        "output": {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse"
        },
        "errors": [
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
          }
        ],
```

"traits": {
"smithy.api#documentation": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/RegisterSubscriptionProvider"

},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " The supported Linux subscription provider to register. ",
"smithy.api#required": {}
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For \n\t\t\tRHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains \n\t\t\tyour Red Hat Offline token. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to your registered Linux subscription provider \n\t\t\tresource. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",

"traits": {
"smithy.api#documentation":
" The Linux subscription provider that you registered. "
}
},
"SubscriptionProviderArn": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " Indicates the status of the registration action for the Linux subscription provider \n\t\t\tthat you requested. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider":
{
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
}
},
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " A supported third-party Linux subscription provider. License Manager currently supports \n\t\t\tRed Hat subscriptions. "
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider \n\t\t\taccess token. For RHEL account subscriptions, this is the offline token. "

```
            }
        },
        "SubscriptionProviderStatus": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
            "traits": {
                "smithy.api#documentation": "<p>Indicates the status of your registered Linux subscription provider
access token \n\t\t\tfrom the last time License Manager retrieved subscription data. For RHEL account subscriptions,
\n\t\t\tthis is the status of the offline token.</p>"
            }
        },
        "SubscriptionProviderStatusMessage": {
            "target": "smithy.api#String",
            "traits":
 {
                "smithy.api#documentation": "<p>A detailed message that's associated with your BYOL subscription
\n\t\t\tprovider token status.</p>"
            }
        },
        "LastSuccessfulDataRetrievalTime": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The timestamp from the last time that License Manager accessed
third-party subscription data \n\t\t\tfor your account from your registered Linux subscription provider.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>A third-party provider for operating system (OS) platform software and
license \n\t\t\tsubscriptions, such as Red Hat. When you register a third-party Linux subscription \n\t\t\tprovider,
License Manager can get subscription data from the registered provider.</p>"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList":
 {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Unable to find the requested Amazon Web Services resource.</p>",
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"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",
"value": "Successful",
"documentation": "Successful status"
},
{
"name": "Failed",
"value": "Failed",
"documentation": "Failed status"
}
]
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}

```
            }
        },
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            },
            "smithy.api#uniqueItems": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name":
{
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"
                }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this
subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
```

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-
9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [

 {
                "name": "RedHat",
                "value": "RedHat",
                "documentation": "RedHat subscription provider namespace"
            }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "ACTIVE",
                    "value": "ACTIVE",
                    "documentation": "ACTIVE status"
                },
                {
                    "name": "INVALID",
                    "value": "INVALID",
```

"documentation": "INVALID status"
},
{
"name": "PENDING",
"value": "PENDING",
"documentation": "PENDING status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList": {
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Add metadata tags to the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "PUT",
"uri": "/tags/{resourceArn}"

```
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest": {
        "type": "structure",
        "members":
 {
            "resourceArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services
resource to which to add the specified \n\t\t\tmetadata tags.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            },
            "tags": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The metadata tags to assign to the Amazon Web Services resource.
Tags are \n\t\t\tformatted as key value pairs.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }

    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Tags": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
        "value": {
            "target": "smithy.api#String"
        },
        "traits": {
            "smithy.api#length": {
```

```
                "min": 0,
                "max": 50
            },
            "smithy.api#sensitive": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation":
 "<p>The request was denied due to request throttling.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Remove one or more metadata tag from the specified Amazon Web
Services resource.</p>",
             "smithy.api#http": {
                "method": "DELETE",
                "uri": "/tags/{resourceArn}"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest": {
        "type": "structure",
        "members": {
```

"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tagKeys": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList",
"traits": {

"smithy.api#documentation": " A list of metadata tag keys to remove from the requested \n\t\t\tresource. ",
"smithy.api#httpQuery": "tagKeys",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"

},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",
"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",

"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}

},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}

```
   }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType
```

```
 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
 struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
```

```
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack,
c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
```

```
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack);
 err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
```

```
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string
```

```
 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn
 *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string
```

```
 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
```

```
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack,
 c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
```

```
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if err = addSpanInitializeEnd(stack); err != nil {
 return err
}
if err = addSpanBuildRequestStart(stack);
err != nil {
 return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
CreateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
```

RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
GetLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader

ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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{
"smithy": "2.0",
"shapes": {

"com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " You don't have sufficient access to perform this action. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
"type": "structure",
"members": {
"DirectoryId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Directory",
"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
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"ActiveDirectorySettings":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings",
"traits": {
"smithy.api#documentation": " The <code>ActiveDirectorySettings</code> resource contains details about \n\t\t\tthe Active Directory, including network access details such as domain name and IP \n\t\t\taddresses, and the credential provider for user administration. "
}
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"ActiveDirectoryType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType",
"traits": {
"smithy.api#documentation": " The type of Active Directory either a self-managed Active Directory or an \n\t\t\tAmazon Web Services Managed Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about an Active Directory identity provider. "
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"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings": {
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"members": {
"DomainName": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The domain name for the Active Directory. "
}
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"DomainIpv4List": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IpV4List",
"traits": {
"smithy.api#documentation": " A list of domain IPv4 addresses that are used for the Active Directory. ",
"smithy.api#length": {
"min": 1,
"max": 2
}
}
},
"DomainCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " Points to the <code>CredentialsProvider</code> resource that contains \n\t\t\tinformation about the credential provider for user administration. "
}
},
"DomainNetworkSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings",
"traits": {
"smithy.api#documentation": " The <code>DomainNetworkSettings</code> resource contains an array of \n\t\t\tsubnets that apply for the Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains network access and credential details that are needed for \n\t\t\tuser administration in the Active Directory. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "SELF_MANAGED",
"value": "SELF_MANAGED",
"documentation": "SELF_MANAGED type of Active Directory"
},
{
"name": "AWS_MANAGED",

"value": "AWS_MANAGED",
"documentation": "AWS_MANAGED type of Active Directory"
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#Arn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related

costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n\t\t\t\tmonthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http":
{
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance that provides the user-based subscription. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider for the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to associate. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {

"smithy.api#documentation": " The tags that apply for the user association. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n\t\t\tresource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/CreateLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details \n\t\t\tabout a registered identity provider. In the case of Active Directory, that can be \n\t\t\ta self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. ",
"smithy.api#required": {}
}
},

"LicenseServerSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings",
"traits": {
"smithy.api#documentation": " The <code>LicenseServerSettings</code> resource to create for the endpoint. The \n\t\t\tsettings include the type of license server and the Secrets Manager secret that \n\t\t\tenables administrators to add or remove users associated with the \n\t\t\tlicense server. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply for the license server endpoint. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider specified in the request. "
}
},
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The ARN of the <code>LicenseServerEndpoint</code> resource. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider": {
"type": "union",
"members": {
"SecretsManagerCredentialsProvider":

{
"target": "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider",
"traits": {
"smithy.api#documentation": " Identifies the Secrets Manager secret that contains credentials needed for \n\t\t\tuser administration in the Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains information about the credential provider for user \n\t\t\tadministration. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse"
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"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

}
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"traits": {
"smithy.api#documentation": " Deletes a <code>LicenseServerEndpoint</code> resource. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/license-server/DeleteLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
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"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> \n\t\t\tresource to delete. ",
"smithy.api#required": {}
}
},
"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of License Server that the delete request refers to. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"LicenseServerEndpoint": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint",
"traits": {
"smithy.api#documentation": " Shows details from the <code>LicenseServerEndpoint</code>
resource that was deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the Active Directory identity provider from License Manager user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the Active Directory identity provider. "

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                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n        </p>"
                }
            },
            "IdentityProviderArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the identity
provider to deregister.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#output": {}

    }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Directory": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^(d|sd)-[0-9a-f]{10}$"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
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"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
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"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
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"errors": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}

}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the Active Directory identity provider for the

user. "
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The ID of the EC2 instance which provides user-based subscriptions. "
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": " An object that specifies details for the Active Directory identity provider. "
                }
            },
            "InstanceUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": " The Amazon Resource Name (ARN) of the user to disassociate from the EC2 instance. "
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to disassociate. "
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
                "traits": {
                    "smithy.api#documentation": " Metadata that describes the associate user operation. ",
                    "smithy.api#required": {}
                }
            }
        },

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " Contains a list of subnets that apply for the Active Directory domain. ",
"smithy.api#length": {
"min": 1
},

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Contains network settings for the Active Directory domain. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {

"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a describe\n\t\t\tor list operation. You can use filters can be used to match a set of resources by specific \n\t\t\tcriteria, such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>ActiveDirectoryIdentityProvider</code> resource contains settings \n\t\t\tand other details about a specific Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Refers to an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>IdentityProvider</code> resource contains information about \n\t\t\tan identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The <code>Settings</code> resource contains details about the registered \n\t\t\tidentity providers product related configuration settings, such as the \n\t\t\tsubnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the
identity provider. ",
"smithy.api#required": {}
}
},
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider. "
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},

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            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
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"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance that provides user-based subscriptions. ",
"smithy.api#required": {}
}
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"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>IdentityProvider</code> resource specifies details \n\t\t\tabout the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"InstanceUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the instance user. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user information for the product subscription. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "

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            }
          },
          "DisassociationDate": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
        "type": "structure",
        "members": {
          "message": {
            "target": "smithy.api#String"
          }
        },
        "traits": {
          "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
          "smithy.api#error": "server",
          "smithy.api#httpError": 500
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IpV4": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#IpV4List": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IpV4"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
        "type": "service",
        "version": "2018-05-10",
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"operations": [
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"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
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"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint"
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResource"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResource"

},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",

"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n\t\ta per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region":

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{
                "builtIn": "AWS::Region",
                "required": false,
                "documentation": "The AWS region used to dispatch the request.",
                "type": "String"
            },
            "UseDualStack": {
                "builtIn": "AWS::UseDualStack",
                "required": true,
                "default": false,
                "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
                "type": "Boolean"
            },
            "UseFIPS": {
                "builtIn": "AWS::UseFIPS",
                "required": true,
                "default": false,
                "documentation": "When true, send this request to the FIPS-compliant
 regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will
return an error.",
                "type": "Boolean"
            },
            "Endpoint": {
                "builtIn": "SDK::Endpoint",
                "required": false,
                "documentation": "Override the endpoint used to send this request",
                "type": "String"
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        "rules": [
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                "conditions": [
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                        "fn": "isSet",
                        "argv": [
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                                "ref": "Endpoint"
                            }
                        ]
                    }
                ],
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                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
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                ]
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        "type": "error"
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        "conditions": [
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                "argv": [
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                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
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        "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
        "type": "error"
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        "conditions": [],
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                "ref": "Endpoint"
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            "headers": {}
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  "type": "tree"
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  "conditions": [
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        "fn": "isSet",
        "argv": [
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                "ref": "Region"
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                        "argv": [
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                        "assign": "PartitionResult"
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                "rules": [
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                                "fn": "booleanEquals",
                                "argv": [
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                                        "ref": "UseFIPS"
                                    },

true
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                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseDualStack"
                                    },
                                    true
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                            }
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                        "rules": [
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                                "conditions": [
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"fn": "booleanEquals",
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                    true,
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                        "argv": [
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                                "ref": "PartitionResult"
                            },
                            "supportsFIPS"
                        ]
                    }
                ]
            },

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                "argv": [
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                    {
                        "fn": "getAttr",
                        "argv": [
                            {
                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }

        ]
            }
        ],
        "rules": [
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                "conditions": [],
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                    "properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }

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        "type": "tree"
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        "conditions": [],
        "error": "FIPS and DualStack are enabled, but this partition does not support one or
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"type": "tree"
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"conditions": [
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"argv": [

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"ref": "UseFIPS"
},
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}
],
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"fn": "getAttr",
"argv": [

{
"ref": "PartitionResult"
},
"supportsFIPS"
]
},
true
]
}
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"rules": [
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"conditions": [],
"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
"properties": {},
"headers": {}
},

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        "type": "tree"
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        "type": "error"

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    "type": "tree"
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{
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                },
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                            "argv": [
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                                },
                                "supportsDualStack"
                            ]

}
                    ]
                }
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            "rules": [
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                            "properties": {},
                                            "headers": {}
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                                    }

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                                        "type": "error"
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",

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                "error": "Invalid Configuration: Missing Region",
                "type": "error"
            }
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    "smithy.rules#endpointTests": {
        "testCases": [
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{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",

"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}

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            },
            "params": {
              "Region": "us-east-1",
              "UseFIPS": false,
              "UseDualStack": false
            }
          },
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            "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS":
true,
              "UseDualStack": true
            }
          },
          {
            "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": true,
              "UseDualStack": false
            }
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            "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
            "expect": {
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                "url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
              }
            },
            "params": {
              "Region": "cn-north-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
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          "expect": {
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            }
          },
          "params": {
            "Region": "cn-north-1",
            "UseFIPS": false,
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          }
        },
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          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
            }
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          "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": true
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        },
        {
          "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
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            }
          },
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            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
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          "expect": {
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            }
          },
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"params": {
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS
and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
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"params": {
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"UseFIPS": true,
"UseDualStack": false

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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {

"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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}

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"params": {
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"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack
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"expect": {
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"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
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"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {

"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {

"UseFIPS": false,
"UseDualStack":
false,
"Endpoint": "https://example.com"
}
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{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration:
Dualstack and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServer": {
"type": "structure",
"members": {
"ProvisioningStatus": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",

"traits": {
"smithy.api#documentation": " The current state of the provisioning process for the RDS \n\t\t\tlicense server. "
}
},
"HealthStatus": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus",
"traits": {
"smithy.api#documentation": " The health status of the RDS license server. "
}
},
"Ipv4Address": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A list of domain IPv4 addresses that are used for the RDS \n\t\t\tlicense server. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a Remote Desktop Services (RDS) license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider that's associated with \n\t\t\tthe RDS license server endpoint. "
}
},
"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of license server. "
}
},
"ServerEndpoint": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint",

"traits": {
"smithy.api#documentation": " The <code>ServerEndpoint</code> resource contains the network \n\t\t\taddress of the RDS license server endpoint. "
}
},

"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The message associated with the provisioning status, if there is one. "
}
},
"LicenseServerEndpointId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId",
"traits": {
"smithy.api#documentation": " The ID of the license server endpoint. "
}
},
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits":
{
"smithy.api#documentation": " The ARN of the <code>ServerEndpoint</code> resource for the RDS \n\t\t\tlicense server. "
}
},
"LicenseServerEndpointProvisioningStatus": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
"traits": {
"smithy.api#documentation": " The current state of the provisioning process for the RDS license \n\t\t\tserver endpoint "
}
},
"LicenseServers": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList",
"traits": {
"smithy.api#documentation": " An array of <code>LicenseServer</code> resources that represent the \n\t\t\tlicense servers that are accessed through this endpoint. "
}
},

"CreationTime": {
"target": "smithy.api#Timestamp",
"traits": {
"smithy.api#documentation": " The timestamp when License Manager created the license server endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains details about a network endpoint for a Remote Desktop Services (RDS) \n\t\t\tlicense server. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId": {
        "type": "string"
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus": {

"type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "PROVISIONING",
                    "value": "PROVISIONING",
                    "documentation": ""
                },
                {
                    "name": "PROVISIONING_FAILED",
                    "value": "PROVISIONING_FAILED",
                    "documentation": ""
                },
                {
                    "name": "PROVISIONED",
                    "value": "PROVISIONED",
                    "documentation": ""
                },
                {
                    "name": "DELETING",
                    "value": "DELETING",
                    "documentation": ""
                },
                {
                    "name": "DELETION_FAILED",
                    "value": "DELETION_FAILED",
                    "documentation": ""

                },
                {
                    "name": "DELETED",
                    "value": "DELETED",
                    "documentation": ""
                }
            ]
```

```
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus": {
            "type": "string",
            "traits": {
                "smithy.api#enum": [
                    {
                        "name": "HEALTHY",
                        "value": "HEALTHY",
                        "documentation": ""
                    },
                    {
                        "name": "UNHEALTHY",
                        "value": "UNHEALTHY",
                        "documentation": ""
                    },
                    {
                        "name": "NOT_APPLICABLE",
                        "value": "NOT_APPLICABLE",
                        "documentation": ""
                    }
                ]
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList": {
            "type": "list",
            "member": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServer"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings": {
            "type": "structure",
            "members": {
                "ServerType": {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
                    "traits": {
                        "smithy.api#documentation": "<p>The type of license server.</p>",
                        "smithy.api#required": {}
                    }
                },
                "ServerSettings": {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ServerSettings",
                    "traits": {
                        "smithy.api#documentation": "<p>The <code>ServerSettings</code> resource contains the settings
for
 your \n\t\t\tserver.</p>",
                        "smithy.api#required": {}
                    }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The settings to configure your license server.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {

            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Active Directory identity providers for user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/ListIdentityProviders"
             },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
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"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n \n \n Product \n \n \n DirectoryId \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse": {
"type": "structure",
"members": {
"IdentityProviderSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",

"traits": {
"smithy.api#documentation": " An array of <code>IdentityProviderSummary</code> resources that contain \n\t\t\tdetails about the Active Directory identity providers that meet the request criteria. ",
"smithy.api#required": {}
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members":
{
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n \n \n Status \n \n \n InstanceId \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",

"traits": {
"smithy.api#documentation": " An array of <code>InstanceSummary</code> resources that contain details \n\t\t\tabout the instances that provide user-based subscriptions and also meet the \n\t\t\trequest criteria. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " List the Remote Desktop Services (RDS) License Server endpoints
",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/ListLicenseServerEndpoints"
},

"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "LicenseServerEndpoints"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single
request. ",
"smithy.api#range": {
"min": 1,
"max": 100
}
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n
\n \n IdentityProviderArn \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse": {
      "type": "structure",
      "members": {
        "LicenseServerEndpoints": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList",
           "traits": {
            "smithy.api#documentation": "<p>An array of <code>LicenseServerEndpoint</code> resources that \n\t\t\tcontain detailed information about the RDS License Servers that meet \n\t\t\tthe request criteria.</p>"
          }
        },
        "NextToken": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#output": {}
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
      "type":
 "operation",
      "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
      },
      "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
      },
      "errors": [
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
```

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n "
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single

request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n
\n \n Status \n \n \n Username \n
\n \n Domain \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating.
This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions
operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't
empty, \n\tthere are additional elements that the service
hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Returns the list of tags for the specified resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource whose tags
you want to retrieve. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse": {
"type": "structure",
"members": {

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        "Tags": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
            "traits": {
                "smithy.api#documentation": "<p>The tags for the specified resource.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
         }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/ListUserAssociations"
```

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            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which
 provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {

    "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n        <ul>\n
   <li>\n            <p>Status</p>\n          </li>\n          <li>\n            <p>Username</p>\n          </li>\n
<li>\n            <p>Domain</p>\n          </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response.</p>"
```

```
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummaries": {

             "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't
empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the
next request to retrieve additional objects.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
        "type": "structure",
        "members": {
            "Username":
 {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for this product
user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
```

},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for this user. ",
"smithy.api#required": {}
}
},
"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for this product user. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for this user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The domain name of the Active Directory that contains the user information for the product subscription. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},

"traits": {
"smithy.api#documentation": " A summary of the user-based subscription products for a specific user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type":
"list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings": {
"type": "structure",
"members": {
"RdsSalCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " The <code>CredentialsProvider</code> resource contains a reference to \n\t\t\tthe credentials provider that's used for RDS license server user administration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Server settings that are specific to a Remote Desktop Services (RDS) license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider to
register. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n
Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",

"traits":
{
"smithy.api#documentation": " The registered identity providers product related configuration \n\t\t\tsettings such as the subnets to provision VPC endpoints. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the identity provider's registration. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " The resource couldn't be found. ",

"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider": {
"type": "structure",
"members": {
"SecretId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the Secrets Manager secret that contains credentials. ",
"smithy.api#length": {
"min": 1
}
}
}
},
"traits": {
"smithy.api#documentation": " Contains a credentials secret that's stored in Secrets Manager. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",
"traits": {
"smithy.api#length": {

"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint": {
"type": "structure",
"members": {
"Endpoint": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The network address of the endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " A network endpoint through which you can access one or more servers. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServerSettings": {
        "type": "union",
        "members": {
            "RdsSalSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings",
                 "traits": {
                    "smithy.api#documentation": "<p>The <code>RdsSalSettings</code> resource contains settings to
configure \n\t\t\ta specific Remote Desktop Services (RDS) license server.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Contains settings for a specific server.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServerType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "RDS_SAL",
                    "value": "RDS_SAL",
                    "documentation": ""
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {

  "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
```

"smithy.api#documentation": " The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",

"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n\t\t\tsubnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n\t\t\tendpoints. The security group should permit inbound TCP port 1688 communication from resources\n\t\t\tin the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Starts a product subscription for a user with the specified identity provider. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n\t\t\t\tmonthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}

}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n ",

"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user for whom to start the product \n\t\t\tsubscription. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the product subscription. "
}

}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"

},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [

{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. "
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. "
}

```
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n        </p>"
                }
            },
            "ProductUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the product user.</p>"

                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the  Active Directory that contains the user
for whom to stop the product \n\t\t\tsubscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }

  }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
```

"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "^subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagKeyList": {
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {

"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation":
 "<p>Adds tags to a resource.</p>",
            "smithy.api#http": {
                "method": "PUT",
                "uri": "/tags/{ResourceArn}"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource that you want
to tag.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation":
 "<p>The tags to apply to the specified resource.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Tags": {
        "type": "map",
        "key": {
            "target": "smithy.api#String"
        },
```

"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException":
{
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the
request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Removes tags from a resource. ",
"smithy.api#http": {
"method": "DELETE",
"uri": "/tags/{ResourceArn}"
},

"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource that you want to remove tags from. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

}
},
"TagKeys": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagKeyList",
"traits": {
"smithy.api#documentation": " The tag keys to remove from the resource. ",
"smithy.api#httpQuery": "tagKeys",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n\t\t\tprovider. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider"
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n "
}
},

"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider to update. "
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {

"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n\t\t\tupdate any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n\t\t\trequire connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {

"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that
allows inbound TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoints for
activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration
settings such as\n\t\t\tthe subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}

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ListReceivedLicenses
Initialize stack step
spanInitializeStart

```
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if
err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if
 err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
CheckoutLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
```

RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

1.5126 google-pprof 0.0.0-20250607225305-033d6d78b36a

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```
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#
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# https://developers.google.com/open-source/cla/corporate
#
# Names should be added to this file as:
#     Name <email address>
Raul Silvera <rsilvera@google.com>
Tipp Moseley <tipp@google.com>
Hyoun Kyu Cho <netforce@google.com>
Martin Spier <spiermar@gmail.com>
Taco de Wolff <tacodewolff@gmail.com>
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```

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1.5127 github.com/zhangyunhao116/umap 0.0.0-20250307031311-0b61e69e958b

1.5127.1 Available under license :

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1.5128 github.com/open-telemetry/opentelemetry-collector-contrib/internal/exp/metrics 0.128.0

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1.5130 lightstep-tracer-go 0.26.0

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google.golang.org/protobuf

```
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// Copyright (c) The EfficientGo Authors.
// Licensed under the Apache License 2.0.

package main

import (
 "io/ioutil"
 "os"
 "path/filepath"
 "testing"

 "github.com/efficientgo/tools/core/pkg/testutil"
 "github.com/pkg/errors"
)

func TestCopyrightApplier(t *testing.T) {
 tmpDir, err := ioutil.TempDir(os.TempDir(), "copyright")
 testutil.Ok(t, err)
 t.Cleanup(func() { testutil.Ok(t, os.RemoveAll(tmpDir)) })

 for _, a := range []*copyrightApplier{
```

```
  NewCopyrightApplier([]byte(`Copyright (c) The EfficientGo Authors.

Licensed under the Apache License 2.0.`)),
  NewCopyrightApplier([]byte(`Copyright (c) The EfficientGo Authors.

Licensed under the Apache License 2.0.`)),
  NewCopyrightApplier([]byte(`
Copyright (c) The EfficientGo Authors.

Licensed under the Apache License 2.0.
`)),
 } {
  t.Run("", func(t *testing.T) {
   for _, tcase := range []struct {
    applier *copyrightApplier

    filename    string
    input       string
    expected    string
    expectedErr error
   }{
    {
     applier:
 a, filename: "abc", input: `package x

// yolo
,`, expectedErr: errors.New("unsupported file extension "),
    },
    {
     applier: a, filename: "abc.go", input: `package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.go", input: `
package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
```

// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.go", input: `Copyright (c) The EfficientGo Authors.
Licensed under the Apache License 2.0.

package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

Copyright (c) The EfficientGo Authors.
Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.go", input: `// Copyright (c) The EfficientGo Authors.
//
// Licensed
 under the Apache License 2.0.

package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "empty.go", input: ``, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

```
`,
    },
    {
     applier: a, filename: "abc.c", input: `package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.cpp", input: `package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.sh", input: `package x

// yolo
,`, expected: `# Copyright (c) The EfficientGo Authors.
#
# Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.py",
 input: `package x

// yolo
,`, expected: `# Copyright (c) The EfficientGo Authors.
```

```
#
# Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.proto", input: `package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     // Generated.
     applier: a, filename: "abc.pb.go", input: `package x

// yolo
,`, expected: `package x

// yolo
,`,
    },
   } {
    t.Run("", func(t *testing.T) {
     file := filepath.Join(tmpDir, tcase.filename)
     testutil.Ok(t, ioutil.WriteFile(file, []byte(tcase.input), os.ModePerm))
     defer func() { testutil.Ok(t, os.RemoveAll(file)) }()

     err := tcase.applier.Apply(file)
     if tcase.expectedErr != nil {
      testutil.NotOk(t, err)
      testutil.Equals(t, tcase.expectedErr.Error(), err.Error())
      return
     }
     testutil.Ok(t, err)

     b, err := ioutil.ReadFile(file)
     testutil.Ok(t,
```

```
 err)
    testutil.Equals(t, tcase.expected, string(b))
   })
  }
 })
}
}
```

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```
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package main

import (
 "bytes"
 "io"
 "log"
 "os"
 "path/filepath"
 "strings"

 "github.com/efficientgo/tools/core/pkg/errcapture"
 "github.com/pkg/errors"
 "github.com/protoconfig/protoconfig/go/kingpinv2"
 "gopkg.in/alecthomas/kingpin.v2"
)

type langSpec struct {
 lineCommentChars []byte
 isGenererated    func(file string) (bool, error)
}
```

```
// TODO(bwplotka): Support more, fill gaps.
var specByExt = map[string]langSpec{
 ".go": {
  lineCommentChars: []byte("//"),
  isGenererated: func(file string) (bool, error) {
   // Yolo
   return strings.HasSuffix(file, ".pb.go"), nil
  },
 },
 ".proto": {
  lineCommentChars: []byte("//"),
 },
 ".c": {
  lineCommentChars: []byte("//"),
 },
 ".cpp": {
  lineCommentChars: []byte("//"),
 },
 ".py": {
  lineCommentChars: []byte("#"),
 },
 ".sh": {
  lineCommentChars: []byte("#"),
 },
}

type copyrightApplier struct {
 copyright []byte

 copyrightBuff map[string][]byte
 fileBuff
     bytes.Buffer

 verbose bool
}

func NewCopyrightApplier(content []byte) *copyrightApplier {
 return &copyrightApplier{
  copyright:     bytes.Trim(content, "\n"),
  copyrightBuff: map[string][]byte{},
  verbose:       false,
 }
}

func (c *copyrightApplier) EnableVerbose() {
 c.verbose = true
}
```

```
// TODO(bwplotka): Make this concurrently.
func (c *copyrightApplier) Apply(file string) (err error) {
 spec, ok := specByExt[filepath.Ext(file)]
 if !ok {
  return errors.Errorf("unsupported file extension %v", filepath.Ext(file))
 }

 if spec.isGenererated != nil {
  is, err := spec.isGenererated(file)
  if err != nil {
   return err
  }
  if is {
   return nil
  }
 }

 cb, ok := c.copyrightBuff[filepath.Ext(file)]
 if !ok {
  split := bytes.Split(c.copyright, []byte("\n"))
  for i, s := range split {
   if len(s) > 0 {
    split[i] = append(
     append(
      append([]byte{}, spec.lineCommentChars...),
      ' ', // Add space only if there is some content on the line.
     ),
     s...,
    )
    continue
   }
   split[i]
 = append([]byte{}, spec.lineCommentChars...)
  }
  cb = bytes.Join(split, []byte("\n"))
  c.copyrightBuff[filepath.Ext(file)] = cb
 }

 f, err := os.OpenFile(file, os.O_RDWR, os.ModePerm)
 if err != nil {
  return err
 }
 defer errcapture.Close(&err, f.Close, "close")

 hdr := make([]byte, len(cb))
 n, err := f.Read(hdr)
 if err != io.EOF && err != nil {
  return errors.Wrapf(err, "read first %v bytes", len(cb))
```

```
 }

 if !bytes.Equal(hdr, cb) {
  // TODO(bwplotka): Figure out how to help on renames?
  if c.verbose {
   log.Println("file", file, "is missing Copyright header or header changed (got ", string(hdr), "). Adding.")
  } else {
   log.Println("file", file, "is missing Copyright header or header changed. Adding.")
  }

  c.fileBuff.Reset()
  c.fileBuff.Write(cb)
  c.fileBuff.WriteByte('\n')
  if len(hdr) == 0 || hdr[0] != '\n' {
   c.fileBuff.WriteByte('\n')
  }
  c.fileBuff.Write(hdr[:n])
  if n >= len(cb) {
   // Read rest of file
 to the buffer.
   if _, err := io.Copy(&c.fileBuff, f); err != nil {
    return errors.Wrap(err, "read")
   }
  }

  // TODO(bwplotka): Not atomic and safest ever, do it better (tmp file?)
  if _, err = f.Seek(0, 0); err != nil {
   return errors.Wrap(err, "seek")
  }

  if _, err = c.fileBuff.WriteTo(f); err != nil {
   return errors.Wrap(err, "write")
  }
 }
 return nil
}

func main() {
 app := kingpin.New(filepath.Base(os.Args[0]), `copyright`)
 copyright := kingpinv2.Flag(app, "copyright", "Copyright content to apply to provided
files").DefaultPath("./COPYRIGHT").PathOrContent()
 files := app.Arg("files", "Files to apply copyright to.").ExistingFiles()
 verbose := app.Flag("verbose", "Enable verbose prints.").Short('v').Bool()
 if _, err := app.Parse(os.Args[1:]); err != nil {
  log.Fatal(err)
 }

 content, err := copyright.Content()
```

```
 if err != nil {
  log.Fatal(err)
 }

 a := NewCopyrightApplier(content)
 if *verbose {
  a.EnableVerbose()
 }
 for _, f := range *files {
  if err
 := a.Apply(f); err != nil {
   log.Fatal(err)
  }
 }
}
module github.com/efficientgo/tools/copyright

go 1.15

require (
 github.com/efficientgo/tools/core v0.0.0-20210106193344-1108f4e7d16b
 github.com/pkg/errors v0.9.1
 github.com/protoconfig/protoconfig/go v0.0.0-20210106192113-733758adefac
 gopkg.in/alecthomas/kingpin.v2 v2.2.6
)
```

1.5136 go-grpc 0.1.2

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1.5137 github.com/thanos-io/thanos-prometheus 0.0.0-20250610133519-082594458a88

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Support for streaming Protocol Buffer messages for the Go language (golang).
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gosnappy - a fork of code.google.com/p/snappy-go
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go-zookeeper - Native ZooKeeper client for Go
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1.5138 github.com/efficientgo/tools/extkingpin 0.0.0-

20230505153745-6b7392939a60

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cloud.google.com/go v0.26.0/go.mod h1:aQUYkXzVsufM+DwF1aE+0xfcU+56JwCaLick0ClmMTw=
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h1:Co6ibVJAznAaIkqp8huTwlJQCZ016jof/cbN4VW5Yz0=
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gopkg.in/check.v1
 v1.0.0-20190902080502-41f04d3bba15/go.mod h1:Co6ibVJAznAaIkqp8huTwlJQCZ016jof/cbN4VW5Yz0=
gopkg.in/yaml.v2 v2.2.2/go.mod h1:hI93XBmqTisBFMUTm0b8Fm+jr3Dg1NNxqwp+5A1VGuI=
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honnef.co/go/tools v0.0.0-20190102054323-c2f93a96b099/go.mod
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honnef.co/go/tools v0.0.0-20190523083050-ea95bdfd59fc/go.mod
h1:rf3lG4BRIbNafJWhAfAdb/ePZxsR/4RtNHQocxwk9r4=
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package main

import (
 "io/ioutil"
 "os"
 "path/filepath"
 "testing"

 "github.com/efficientgo/tools/core/pkg/testutil"
 "github.com/pkg/errors"
)

func TestCopyrightApplier(t *testing.T) {
 tmpDir, err := ioutil.TempDir(os.TempDir(), "copyright")
 testutil.Ok(t, err)

```
 t.Cleanup(func() { testutil.Ok(t, os.RemoveAll(tmpDir)) })

 for _, a := range []*copyrightApplier{
  NewCopyrightApplier([]byte(`Copyright (c) The EfficientGo Authors.

Licensed under the Apache License 2.0.`)),
  NewCopyrightApplier([]byte(`Copyright (c) The EfficientGo Authors.

Licensed under the Apache License 2.0.`)),
  NewCopyrightApplier([]byte(`
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Licensed under the Apache License 2.0.
`)),
 } {
  t.Run("", func(t *testing.T) {
   for _, tcase := range []struct {
    applier *copyrightApplier

    filename    string
    input       string
    expected    string
    expectedErr error
   }{
    {
     applier:
 a, filename: "abc", input: `package x

// yolo
,`, expectedErr: errors.New("unsupported file extension "),
    },
    {
     applier: a, filename: "abc.go", input: `package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.go", input: `
package x
```

```
// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.go", input: `Copyright (c) The EfficientGo Authors.
Licensed under the Apache License 2.0.

package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

Copyright (c) The EfficientGo Authors.
Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.go", input: `// Copyright (c) The EfficientGo Authors.
//
// Licensed
 under the Apache License 2.0.

package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
```

```
     applier: a, filename: "empty.go", input: ``, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

`,
    },
    {
     applier: a, filename: "abc.c", input: `package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.cpp", input: `package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.sh", input: `package x

// yolo
,`, expected: `# Copyright (c) The EfficientGo Authors.
#
# Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.py",
```

```
 input: `package x

// yolo
,`, expected: `# Copyright (c) The EfficientGo Authors.
#
# Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     applier: a, filename: "abc.proto", input: `package x

// yolo
,`, expected: `// Copyright (c) The EfficientGo Authors.
//
// Licensed under the Apache License 2.0.

package x

// yolo
,`,
    },
    {
     // Generated.
     applier: a, filename: "abc.pb.go", input: `package x

// yolo
,`, expected: `package x

// yolo
,`,
    },
   } {
    t.Run("", func(t *testing.T) {
     file := filepath.Join(tmpDir, tcase.filename)
     testutil.Ok(t, ioutil.WriteFile(file, []byte(tcase.input), os.ModePerm))
     defer func() { testutil.Ok(t, os.RemoveAll(file)) }()

     err := tcase.applier.Apply(file)
     if tcase.expectedErr != nil {
      testutil.NotOk(t, err)
      testutil.Equals(t, tcase.expectedErr.Error(), err.Error())
      return
     }
     testutil.Ok(t, err)
```

```
    b, err := ioutil.ReadFile(file)
    testutil.Ok(t,
 err)
    testutil.Equals(t, tcase.expected, string(b))
   })
  }
 })
}
}
```

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```
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package main

import (
 "bytes"
 "io"
 "log"
 "os"
 "path/filepath"
 "strings"

 "github.com/efficientgo/tools/core/pkg/errcapture"
 "github.com/pkg/errors"
 "github.com/protoconfig/protoconfig/go/kingpinv2"
 "gopkg.in/alecthomas/kingpin.v2"
)

type langSpec struct {
 lineCommentChars []byte
```

```
 isGenererated    func(file string) (bool, error)
}

// TODO(bwplotka): Support more, fill gaps.
var specByExt = map[string]langSpec{
 ".go": {
  lineCommentChars: []byte("//"),
  isGenererated: func(file string) (bool, error) {
   // Yolo
   return strings.HasSuffix(file, ".pb.go"), nil
  },
 },
 ".proto": {
  lineCommentChars: []byte("//"),
 },
 ".c": {
  lineCommentChars: []byte("//"),
 },
 ".cpp": {
  lineCommentChars: []byte("//"),
 },
 ".py": {
  lineCommentChars: []byte("#"),
 },
 ".sh": {
  lineCommentChars: []byte("#"),
 },
}

type copyrightApplier struct {
 copyright []byte

 copyrightBuff map[string][]byte
 fileBuff
     bytes.Buffer

 verbose bool
}

func NewCopyrightApplier(content []byte) *copyrightApplier {
 return &copyrightApplier{
  copyright:     bytes.Trim(content, "\n"),
  copyrightBuff: map[string][]byte{},
  verbose:       false,
 }
}

func (c *copyrightApplier) EnableVerbose() {
```

```
 c.verbose = true
}

// TODO(bwplotka): Make this concurrently.
func (c *copyrightApplier) Apply(file string) (err error) {
 spec, ok := specByExt[filepath.Ext(file)]
 if !ok {
  return errors.Errorf("unsupported file extension %v", filepath.Ext(file))
 }

 if spec.isGenererated != nil {
  is, err := spec.isGenererated(file)
  if err != nil {
   return err
  }
  if is {
   return nil
  }
 }

 cb, ok := c.copyrightBuff[filepath.Ext(file)]
 if !ok {
  split := bytes.Split(c.copyright, []byte("\n"))
  for i, s := range split {
   if len(s) > 0 {
    split[i] = append(
     append(
      append([]byte{}, spec.lineCommentChars...),
      ' ', // Add space only if there is some content on the line.
     ),
     s...,
    )
    continue
   }
   split[i]
 = append([]byte{}, spec.lineCommentChars...)
  }
  cb = bytes.Join(split, []byte("\n"))
  c.copyrightBuff[filepath.Ext(file)] = cb
 }

 f, err := os.OpenFile(file, os.O_RDWR, os.ModePerm)
 if err != nil {
  return err
 }
 defer errcapture.Close(&err, f.Close, "close")

 hdr := make([]byte, len(cb))
```

```
 n, err := f.Read(hdr)
 if err != io.EOF && err != nil {
  return errors.Wrapf(err, "read first %v bytes", len(cb))
 }

 if !bytes.Equal(hdr, cb) {
  // TODO(bwplotka): Figure out how to help on renames?
  if c.verbose {
   log.Println("file", file, "is missing Copyright header or header changed (got ", string(hdr), "). Adding.")
  } else {
   log.Println("file", file, "is missing Copyright header or header changed. Adding.")
  }

  c.fileBuff.Reset()
  c.fileBuff.Write(cb)
  c.fileBuff.WriteByte('\n')
  if len(hdr) == 0 || hdr[0] != '\n' {
   c.fileBuff.WriteByte('\n')
  }
  c.fileBuff.Write(hdr[:n])
  if n >= len(cb) {
   // Read rest of file
 to the buffer.
   if _, err := io.Copy(&c.fileBuff, f); err != nil {
    return errors.Wrap(err, "read")
   }
  }

  // TODO(bwplotka): Not atomic and safest ever, do it better (tmp file?)
  if _, err = f.Seek(0, 0); err != nil {
   return errors.Wrap(err, "seek")
  }

  if _, err = c.fileBuff.WriteTo(f); err != nil {
   return errors.Wrap(err, "write")
  }
 }
 return nil
}

func main() {
 app := kingpin.New(filepath.Base(os.Args[0]), `copyright`)
 copyright := kingpinv2.Flag(app, "copyright", "Copyright content to apply to provided
files").DefaultPath("./COPYRIGHT").PathOrContent()
 files := app.Arg("files", "Files to apply copyright to.").ExistingFiles()
 verbose := app.Flag("verbose", "Enable verbose prints.").Short('v').Bool()
 if _, err := app.Parse(os.Args[1:]); err != nil {
  log.Fatal(err)
```

```
 }

 content, err := copyright.Content()
 if err != nil {
  log.Fatal(err)
 }

 a := NewCopyrightApplier(content)
 if *verbose {
  a.EnableVerbose()
 }
 for _, f := range *files {
  if err
 := a.Apply(f); err != nil {
   log.Fatal(err)
  }
 }
}
module github.com/efficientgo/tools/copyright

go 1.15

require (
 github.com/efficientgo/tools/core v0.0.0-20210106193344-1108f4e7d16b
 github.com/pkg/errors v0.9.1
 github.com/protoconfig/protoconfig/go v0.0.0-20210106192113-733758adefac
 gopkg.in/alecthomas/kingpin.v2 v2.2.6
)
```

1.5139 github.com/open-telemetry/opentelemetry-collector-contrib/pkg/pdatautil 0.128.0

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//! github.com/moment/moment-timezone

//! license : MIT

//! moment-timezone.js

//! moment.js

//! version : 0.5.34
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package main

import (
 "bytes"
 "log"
 "os"
```

```
 "path/filepath"
 "strings"
)

type copyright []byte

var (
 // thanos compatible for Go and Proto files.
 thanos copyright = []byte(`// Copyright (c) The Thanos Authors.
// Licensed under the Apache License 2.0.

`)
 cortex copyright = []byte(`// Copyright (c) The Cortex Authors.
// Licensed under the Apache License 2.0.

`)
)

func applyLicenseToProtoAndGo() error {
 return filepath.Walk(".", func(path string, info os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  // Filter out stuff that does not need copyright.
  if info.IsDir() {
   switch path {
   case "vendor":
    return filepath.SkipDir
   }
   return nil
  }
  if strings.HasSuffix(path, ".pb.go") {
   return nil
  }
  if (filepath.Ext(path) != ".proto" && filepath.Ext(path) != ".go") ||
   // We copied this file, and we want to maintain its license (MIT).
   path == "pkg/testutil/testutil.go"
 ||
   // Generated file.
   path == "pkg/ui/bindata.go" {
   return nil
  }

  b, err := os.ReadFile(filepath.Clean(path))
  if err != nil {
   return err
  }
```

```
  var cr copyright
  if strings.HasPrefix(path, "internal/cortex") {
   // We vendored in Cortex files, and we want to maintain its license
   cr = cortex
  } else {
   cr = thanos
  }
  if err := writeLicence(cr, path, b); err != nil {
   return err
  }
  return nil
 })
}

func writeLicence(cr copyright, path string, b []byte) error {
 if !strings.HasPrefix(string(b), string(cr)) {
  log.Println("file", path, "is missing Copyright header. Adding.")

  var bb bytes.Buffer
  _, _ = bb.Write(cr)
  _, _ = bb.Write(b)
  if err := os.WriteFile(path, bb.Bytes(), 0600); err != nil {
   return err
  }
 }
 return nil
}

func main() {
 if err := applyLicenseToProtoAndGo(); err != nil {
  log.Fatal(err)
 }
}
```

1.5141 vimeo-galaxycache 1.3.1

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1.5142 go.opentelemetry.io/otel/bridge/opentracing 1.36.0

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1.5143 cos-go-sdk-v5 0.7.66

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package main

```
import (
 "context"
 "fmt"
 "net/http"
 "net/url"
 "os"

 "github.com/tencentyun/cos-go-sdk-v5"
 "github.com/tencentyun/cos-go-sdk-v5/debug"
)

func log_status(err error) {
 if err == nil {
  return
 }
 if cos.IsNotFoundError(err) {
  // WARN
  fmt.Println("WARN: Resource is not existed")
 } else if e, ok := cos.IsCOSError(err); ok {
  fmt.Printf("ERROR: Code: %v\n", e.Code)
  fmt.Printf("ERROR: Message: %v\n", e.Message)
```

```
  fmt.Printf("ERROR: Resource: %v\n", e.Resource)
  fmt.Printf("ERROR: RequestId: %v\n", e.RequestID)
  // ERROR
 } else {
  fmt.Printf("ERROR: %v\n", err)
  // ERROR
 }
}

func main() {
 u, _ := url.Parse("https://test-1234567890.cos.ap-chongqing.myqcloud.com")
 b := &cos.BaseURL{BucketURL: u}
 c := cos.NewClient(b, &http.Client{
  Transport: &cos.AuthorizationTransport{
   SecretID:  os.Getenv("COS_SECRETID"),
   SecretKey: os.Getenv("COS_SECRETKEY"),
   Transport: &debug.DebugRequestTransport{
    RequestHeader: true,
    // Notice when put a large file
 and set need the request body, might happend out of memory error.
    RequestBody:    false,
    ResponseHeader: true,
    ResponseBody:   true,
   },
  },
 })
 obj := "pic/carCard.jpeg"
 opt := &cos.AILicenseRecOptions{
  CardType: "DriverLicense",
 }
 res, _, err := c.CI.AILicenseRec(context.Background(), obj, opt)
 log_status(err)
 fmt.Printf("%+v\n", res)
}
```

1.5144 github.com/aws/aws-sdk-go-v2/config 1.29.15

1.5144.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
   - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string
```

```
 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
```

```
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err =
 addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return
 err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
```

```
    - name: Checkout target
      uses: actions/checkout@v2
      with:
        path: sdkbase
        ref: ${{ github.base_ref }}
    - name: Checkout this ref
      uses: actions/checkout@v2
      with:
        path: new-ref
        fetch-depth: 0
    - name: Get Diff
      run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
    - name: Get Target Files
      run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
    - name: Checkout scancode
      uses: actions/checkout@v2
      with:
        repository: nexB/scancode-toolkit
        path: scancode-toolkit
        fetch-depth: 1
    - name: Set up Python ${{ matrix.python-version }}
       uses: actions/setup-python@v2
      with:
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
DeleteLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
```

spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength

```
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
```

```
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
```

```
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options);
 err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
```

```
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string
```

```
 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err !=
 nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
```

```
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err
!= nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
```

```
middleware.Before); err != nil {
 return err
 }
 if err = addRecursionDetection(stack); err != nil {
 return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
 return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
 return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
 return err
 }
 if
 err = addSpanBuildRequestStart(stack); err != nil {
 return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
 return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
```

```
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
 //
 //   - ProductSKU
 //
 //   - Fingerprint
 //
 //   - Status
 Filters
 []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
```

```
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
```

```
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack);
 err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListLicenses",
 }
}
DisassociateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
```

UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop

Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckoutBorrowLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS

```
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
```

```
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err
 != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
```

```
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options);
err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
```

```
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
```

```
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 //
 This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
 // configuration for workloads running with continuous connectivity. Choose a
 // borrow configuration for workloads with offline usage.
 //
 // This member is required.
 ConsumptionConfiguration *types.ConsumptionConfiguration

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.Entitlement
```

```
 // Home Region for the license.
 //
 // This member is required.
 HomeRegion *string

 // License issuer.
 //
 // This member is required.
 Issuer *types.Issuer

 // License name.
 //
 // This member is required.
 LicenseName *string

 // Product name.
 //
 // This member is required.
 ProductName *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 // Information about
 the license.
 LicenseMetadata []types.Metadata

 // Tags to add to the license. For more information about tagging support in
 // License Manager, see the [TagResource]operation.
 //
 // [TagResource]: https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html
 Tags []types.Tag

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
```

```
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err
= addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return
```

```
 err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CreateLicense",
 }
}
```

AWS SDK for Go

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AssociateLicense

```
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
```

```
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
```

```
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
 // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {
```

```
 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
```

```
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
```

```
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options);
 err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

ServiceID: ServiceID,
OperationName: "CheckoutBorrowLicense",
}
}
{
"smithy": "2.0",
"shapes": {
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions \n\t\t\tregistered to your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/DeregisterSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest": {

"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the subscription provider resource to deregister. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type":
 "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest"
        },
        "output": {
            "target":
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
             },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Get details for a Bring Your Own License (BYOL) subscription that's
registered to your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetRegisteredSubscriptionProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
```

"smithy.api#documentation":
" The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. "
}
},
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",

"traits": {
"smithy.api#documentation": " The subscription provider for the BYOL registration resource specified \n\t\t\tin the request. "
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL \n\t\t\tregistration resource specified in the request. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " The status of the Linux subscription provider access token from the last \n\t\t\tsuccessful subscription data request. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The detailed message from your subscription provider token status. "
}

```
            },
            "LastSuccessfulDataRetrievalTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The timestamp from the last time License Manager retrieved
subscription details \n\t\t\tfrom your registered third-party Linux subscription provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
        "type": "operation",
        "input": {
            "target":
 "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings for your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"

            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists
the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}

```
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }
            },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of the instance.</p>"
                }
            },
            "Region": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Region the instance is running in.</p>"
                }
            },
            "UsageOperation": {
                "target": "smithy.api#String",

    "traits": {
                    "smithy.api#documentation": "<p>The usage operation of the instance. For more information, see For more information, see\n        <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i>.</p>"
                }
            },
            "ProductCode": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
                "traits": {
                    "smithy.api#documentation": "<p>The product code for the instance. For more information, see <a href=\"https://docs.aws.amazon.com/license-manager/latest/userguide/linux-subscriptions-usage-operation.html\">Usage\n        operation values</a> in the <i>License Manager User Guide</i> .</p>"
```

}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the license subscription that the instance uses. "
}
},
"OsVersion": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The operating system software version that runs on your instance. "
}
},
"SubscriptionProviderCreateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp when you registered the third-party Linux subscription \n\t\t\tprovider for the subscription that the instance uses. "
}
},
"SubscriptionProviderUpdateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that the instance synced with the registered \n\t\t\tthird-party Linux subscription provider. "
}
},
"DualSubscription": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Indicates that you have two different license subscriptions for \n\t\t\tthe same software on your instance. "
}
},
"RegisteredWithSubscriptionProvider": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Indicates that your instance uses a BYOL license subscription from \n\t\t\ta third-party Linux subscription provider that you've registered with License Manager. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"

```
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource"
        },
        {
          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
        }
      ],
      "traits": {
        "aws.api#service": {
          "sdkId": "License Manager Linux Subscriptions",
          "arnNamespace": "license-manager-linux-subscriptions",
          "cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-linux-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id"
          ],
          "additionalExposedHeaders": [
            "x-amzn-errortype",
            "x-amzn-requestid",
            "x-amzn-trace-id"
          ]
        },
        "smithy.api#documentation": "<p>With License Manager,
you can discover and track your commercial Linux subscriptions on running\n      Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager Linux Subscriptions",
```

"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
}
},
"rules": [
{
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{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"rules": [
{
"conditions": [
{

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                "fn": "booleanEquals",
                "argv": [
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                    "ref": "UseFIPS"
                  },
                  true
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              "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
              "type": "error"
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                      "fn": "booleanEquals",
                      "argv": [
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                          "ref": "UseDualStack"
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                        true
                      ]

}
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                "type": "error"
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            "type": "tree"

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{
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                            "ref": "Region"
                        }
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                    "conditions": [
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    "fn": "aws.partition",
                            "argv": [
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                                    "ref": "Region"
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                            "assign": "PartitionResult"
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                                        },
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                                    ]
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                                    "argv": [
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                                            "ref": "UseDualStack"
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```
                    },
                    true
                ]
            }

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                            "argv": [
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                                {
                                    "fn": "getAttr",
                                    "argv": [
                                        {
                                            "ref": "PartitionResult"

},
                                        "supportsFIPS"
                                    ]
                                }
                            ]
                        },
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                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [

                                      {
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                                        },
                                        "supportsDualStack"
                                    ]
                                }
                            ]
                        }
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                        {
                            "conditions": [],

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"conditions": [],
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"url": "https://license-manager-linux-subscriptions-fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
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"type": "error"
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],
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{

"conditions": [
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"argv": [
{
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},
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]
}
],
"rules": [
{
"conditions": [
{

"fn": "booleanEquals",
"argv": [
{
"fn": "getAttr",
"argv": [

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                                    {
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                                    "supportsFIPS"
                                ]
                            },
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                        ]
                        }
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                            "rules": [
                                {
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fips.{Region}.{PartitionResult#dnsSuffix}",

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                                        "headers": {}
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                                    "type": "endpoint"
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                            "type": "tree"
                        }
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                    "type": "tree"
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled
 but this partition does not support FIPS",
                    "type": "error"
                }
            ],
            "type": "tree"
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        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
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                    },
                    true

                ]
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                            "fn": "booleanEquals",
                            "argv": [
                                true,
                                {
                                    "fn": "getAttr",
                                    "argv": [
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                                        "ref": "PartitionResult"
                                        },
                                        "supportsDualStack"
                                    ]
                                }
                            ]
                        }
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                            "rules": [

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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                                        "headers": {}
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                            "type": "tree"

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                    ],
                    "type": "tree"
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                ],
                "type": "tree"
            },
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                "conditions": [],
                "rules": [
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ],
                "type": "tree"
            }
        ],
        "type": "tree"
    }
    ],
    "type": "tree"
},
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    "conditions": [],
    "error": "Invalid Configuration: Missing Region",
    "type": "error"
}
],
"type": "tree"
}
]
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"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
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}
},
"params": {
"Region": "us-east-1",
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"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
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            },
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              "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
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1.api.amazonwebservices.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": true
              }
            },
            {

 "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": false
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            },
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              "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
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                  "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
                }
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            },
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              "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
                }
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            },
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              "UseFIPS": false,
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
              "endpoint": {
                "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": true,
              "UseDualStack": true
            }
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            "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
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              }

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              "UseDualStack": false
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          },
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            "expect": {
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                "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
              }
            },
            "params": {
              "Region": "us-gov-east-1",
              "UseFIPS": false,
              "UseDualStack": true
            }
          },
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{

"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
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},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {

"Region": "us-iso-east-1",
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"UseDualStack": true
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{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
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"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-iso-east-1",
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"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
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"params": {
"Region": "us-iso-east-1",
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"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
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"UseDualStack": true
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
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"params": {
"Region": "us-isob-east-1",
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"UseDualStack": false
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"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"expect": {
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}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
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},
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"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}

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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
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"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
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"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {

"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
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"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled LinuxSubscriptionsDiscovery"

},
{
"name": "Disabled",

"value": "Disabled",
"documentation": "Disabled LinuxSubscriptionsDiscovery"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
"type": "structure",
"members": {
"SourceRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest":
 {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results by your
specified criteria. \n    \tFor example, you can specify <code>Region</code> in the <code>Name</code>, with the
\n    \t<code>contains</code> operator to list all subscriptions that match a partial string in the \n
\t<code>Value</code>, such as <code>us-west</code>.</p>\n        <p>For each filter, you can specify one of the
following values for the <code>Name</code> key \n    \tto streamline results:</p>\n        <ul>\n            <li>\n
   <p>\n                <code>AccountID</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
      <code>AmiID</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>DualSubscription</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>InstanceID</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>InstanceType</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>ProductCode</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>Region</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>Status</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>UsageOperation</code>\n              </p>\n           </li>\n        </ul>\n        <p>For each filter, you can use
one of the following <code>Operator</code>
 values to \n  \t\tdefine the behavior of the filter:</p>\n        <ul>\n            <li>\n              <p>\n
<code>contains</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>Notequal</code>\n              </p>\n           </li>\n        </ul>"
                }
            },
            "MaxResults": {
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to
start paginating. This \n\tis the nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield
isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the
next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",

"items": "Subscriptions"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The
valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "

```
            }
        },
        "MaxResults": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
            "traits": {
                "smithy.api#documentation": "<p>The maximum items to return in a request.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>A token to specify where to start paginating. This \n\tis
 the nextToken from a previously truncated response.</p>",
                "smithy.api#length": {
                    "min": 1,
                    "max": 16384
                }
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if
parameters in request increases."
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
    "type": "structure",
    "members": {
        "Subscriptions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
            "traits": {
                "smithy.api#documentation": "<p>An array that contains subscription objects.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
             "traits": {
                "smithy.api#documentation": "<p>The next token used for paginated responses. When this \n\tfield
isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the
next request to retrieve \n\tadditional objects.</p>"
            }
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders": {
    "type": "operation",
    "input": {
        "target":
```

"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest"
        },
        "output": {
            "target":
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"

            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": " List Bring Your Own License (BYOL) subscription registration
resources for your account. ",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListRegisteredSubscriptionProviders"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "RegisteredSubscriptionProviders"
            }
        }

    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSources": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList",
                "traits": {
                    "smithy.api#documentation": " To filter your results, specify which subscription providers to
return \n\t\t\tin the list. "
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",

"traits": {
"smithy.api#documentation": " The maximum items to return in a request. ",
"smithy.api#range": {
"min": 1,
"max": 100
}
}

},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis the nextToken from a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse": {
"type": "structure",
"members": {
"RegisteredSubscriptionProviders": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList",
"traits": {
"smithy.api#documentation": " The list of BYOL registration resources that fit the criteria \n\t\t\tyou specified in the request. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List the metadata tags that are assigned to the \n\t\t\tspecified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{resourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"tags": {

```
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The metadata tags for the requested resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
                    "name": "CONTAINS",
                    "value": "Contains",
                    "documentation": "Contains operator"
                }
            ],
            "smithy.api#length": {
                "min": 1,
                "max": 20
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "Enabled",
                    "value": "Enabled",
                    "documentation": "Enabled OrganizationIntegration"
                },
                {
                    "name": "Disabled",
```

"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/RegisterSubscriptionProvider"

},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",

"traits": {
"smithy.api#documentation": " The supported Linux subscription provider to register. ",
"smithy.api#required": {}
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For \n\t\t\tRHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains \n\t\t\tyour Red Hat Offline token. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to your registered Linux subscription provider \n\t\t\tresource. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " The Linux subscription provider that you registered. "
}
},
"SubscriptionProviderArn": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " Indicates the status of the registration action for the Linux subscription provider \n\t\t\tthat you requested. "

```
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider":
 {
        "type": "structure",
        "members": {
          "SubscriptionProviderArn": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
            "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Linux subscription
provider resource that you registered.</p>"
            }
          },
          "SubscriptionProviderSource": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
            "traits": {
              "smithy.api#documentation": "<p>A supported third-party Linux subscription provider. License
Manager currently supports \n\t\t\tRed Hat subscriptions.</p>"
            }
          },
          "SecretArn": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
             "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Secrets Manager secret
that stores your registered Linux subscription provider \n\t\t\taccess token. For RHEL account subscriptions, this is
the offline token.</p>"
            }
          },
          "SubscriptionProviderStatus": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
            "traits": {
              "smithy.api#documentation": "<p>Indicates the status of your registered Linux subscription provider
access token \n\t\t\tfrom the last time License Manager retrieved subscription data. For RHEL account subscriptions,
\n\t\t\tthis is the status of the offline token.</p>"
            }
          },
          "SubscriptionProviderStatusMessage": {
            "target": "smithy.api#String",
            "traits":
 {
              "smithy.api#documentation": "<p>A detailed message that's associated with your BYOL subscription
\n\t\t\tprovider token status.</p>"
            }
```

```
            },
            "LastSuccessfulDataRetrievalTime": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The timestamp from the last time that License Manager accessed third-party subscription data \n\t\t\tfor your account from your registered Linux subscription provider.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A third-party provider for operating system (OS) platform software and license \n\t\t\tsubscriptions, such as Red Hat. When you register a third-party Linux subscription \n\t\t\tprovider, License Manager can get subscription data from the registered provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Unable to find the requested Amazon Web Services resource.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"

    }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "InProgress",
```

```
            "value": "InProgress",
            "documentation": "InProgress status"
          },
          {
            "name": "Completed",
            "value": "Completed",
            "documentation": "Completed status"
          },
          {
            "name": "Successful",
            "value": "Successful",
            "documentation": "Successful status"
          },
          {
            "name": "Failed",
            "value": "Failed",
            "documentation": "Failed status"
          }
        ]
      }
    },

  "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
      "type": "list",
      "member": {
        "target": "smithy.api#String",
        "traits": {
          "smithy.api#length": {
            "min": 1,
            "max": 100
          }
        }
      },
      "traits": {
        "smithy.api#length": {
          "min": 1,
          "max": 100
        },
        "smithy.api#uniqueItems": {}
      }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
      "type": "map",
      "key": {
        "target": "smithy.api#String"
      },
      "value": {
        "target": "smithy.api#String"
```

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
        "type": "structure",
        "members": {
            "Name":
 {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the subscription.</p>"
                }
            },
            "Type": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
                }
            },
            "InstanceCount": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
                "traits": {
                    "smithy.api#documentation": "<p>The total amount of running instances using this
 subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-
9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource": {
        "type": "string",
```

"traits": {
"smithy.api#enum": [

{
"name": "RedHat",
"value": "RedHat",
"documentation": "RedHat subscription provider namespace"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "ACTIVE",
"value": "ACTIVE",
"documentation": "ACTIVE status"
},
{
"name": "INVALID",
"value": "INVALID",

"documentation": "INVALID status"
},
{
"name": "PENDING",
"value": "PENDING",
"documentation": "PENDING status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList": {
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,

"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Add metadata tags to the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "PUT",
"uri": "/tags/{resourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest": {
"type": "structure",
"members":
{
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified \n\t\t\tmetadata tags. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tags": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to the Amazon Web Services resource. Tags are \n\t\t\tformatted as key value pairs. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Tags": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Remove one or more metadata tag from the specified Amazon Web
Services resource.</p>",
             "smithy.api#http": {
                "method": "DELETE",
                "uri": "/tags/{resourceArn}"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "resourceArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services
resource to remove the metadata tags from.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            },
            "tagKeys": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList",
                "traits": {

           "smithy.api#documentation": "<p>A list of metadata tag keys to remove from the requested
\n\t\t\tresource.</p>",
                    "smithy.api#httpQuery": "tagKeys",
                    "smithy.api#required": {}
                }
```

```
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse": {
    "type": "structure",
    "members": {},
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"

 },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/subscription/UpdateServiceSettings"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
    "type": "structure",
    "members": {
         "LinuxSubscriptionsDiscovery": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
```

"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",
"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}

```
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }

        },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```


```
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
```

```
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
```

```
struct {

// A structure containing data about the workspace.
//
// This member is required.
Workspace *types.WorkspaceDescription

// Metadata pertaining to the operation's result.
ResultMetadata middleware.Metadata

noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
```

```
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack,
 c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
```

```
 return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack);
 err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
```

```
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
```

```
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn
 *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack,
 c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack);
 err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
```

```
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
CreateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
```

ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
GetLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": " You don't have sufficient access to perform this action. ",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Directory",

"traits": {
"smithy.api#documentation": " The directory ID for an Active Directory identity provider. "
}
},
"ActiveDirectorySettings":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings",
"traits": {
"smithy.api#documentation": " The <code>ActiveDirectorySettings</code> resource contains details about \n\t\t\tthe Active Directory, including network access details such as domain name and IP \n\t\t\taddresses, and the credential provider for user administration. "
}
},
"ActiveDirectoryType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType",
"traits": {
"smithy.api#documentation": " The type of Active Directory either a self-managed Active Directory or an \n\t\t\tAmazon Web Services Managed Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Details about an Active Directory identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings": {
"type": "structure",
"members": {
"DomainName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name for the Active Directory. "
}
},
"DomainIpv4List": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IpV4List",
"traits": {
"smithy.api#documentation": " A list of domain IPv4 addresses that are used for the Active Directory. ",
"smithy.api#length": {
"min": 1,
"max": 2
}
}
},
"DomainCredentialsProvider": {
"target":

"com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " Points to the <code>CredentialsProvider</code> resource that contains \n\t\t\tinformation about the credential provider for user administration. "
}
},
"DomainNetworkSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings",
"traits": {
"smithy.api#documentation": " The <code>DomainNetworkSettings</code> resource contains an array of \n\t\t\tsubnets that apply for the Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains network access and credential details that are needed for \n\t\t\tuser administration in the Active Directory. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "SELF_MANAGED",
"value": "SELF_MANAGED",
"documentation": "SELF_MANAGED type of Active Directory"
},
{
"name": "AWS_MANAGED",
"value": "AWS_MANAGED",
"documentation": "AWS_MANAGED type of Active Directory"
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#Arn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. \n <note>\n Your estimated bill for charges on the number of users and related costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your\n\t\t\t\tmonthly charges in the Amazon Web Services Billing User Guide. \n </note>",
"smithy.api#http":
{
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance that provides the user-based subscription. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider for the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to associate. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply for the user association. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}

```
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
        "type": "integer"
    },
    "com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
             }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request couldn't be completed because it conflicted with the current
state of the\n\t\t\tresource.</p>",
            "smithy.api#error": "server"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },

        {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
```

{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/CreateLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details \n\t\t\tabout a registered identity provider. In the case of Active Directory, that can be \n\t\t\ta self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. ",
"smithy.api#required": {}
}
},
"LicenseServerSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings",
"traits": {
"smithy.api#documentation": " The <code>LicenseServerSettings</code> resource to create for the endpoint. The \n\t\t\tsettings include the type of license server and the Secrets Manager secret that \n\t\t\tenables administrators to add or remove users associated with the \n\t\t\tlicense server. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply for the license server endpoint. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse":
{
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider
specified in the request. "
}
},
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The ARN of the <code>LicenseServerEndpoint</code>
resource. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider": {
"type": "union",
"members": {
"SecretsManagerCredentialsProvider":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider",
"traits": {
"smithy.api#documentation": " Identifies the Secrets Manager secret that contains credentials
needed for \n\t\t\tuser administration in the Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains information about the credential provider for user
\n\t\t\tadministration. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest"
},

"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Deletes a <code>LicenseServerEndpoint</code> resource. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/DeleteLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> \n\t\t\tresource to delete. ",
"smithy.api#required": {}
}
},

"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of License Server that the delete request refers to. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"LicenseServerEndpoint": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint",
"traits": {
"smithy.api#documentation": " Shows details from the <code>LicenseServerEndpoint</code> resource that was deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Deregisters the Active Directory identity provider from License
Manager user-based subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/DeregisterIdentityProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest":
 {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the Active Directory identity
provider.</p>"
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n        </p>"
                }
            },
            "IdentityProviderArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                 "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the identity
provider to deregister.</p>"
                }
```

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            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#output": {}

    }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Directory": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^(d|sd)-[0-9a-f]{10}$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}

}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the Active Directory identity provider for the user. "
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance which provides user-based subscriptions. "
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the Active Directory identity provider. "
}
},

"InstanceUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the user to disassociate from the EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to disassociate. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " Contains a list of subnets that apply for the Active Directory domain. ",
"smithy.api#length": {
"min": 1
},

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Contains network settings for the Active Directory domain. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a describe\n\t\t\tor list operation. You can use filters can be used to match a set of resources by specific \n\t\t\tcriteria, such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",

"traits": {
"smithy.api#documentation": " The <code>ActiveDirectoryIdentityProvider</code> resource contains settings \n\t\t\tand other details about a specific Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Refers to an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>IdentityProvider</code> resource contains information about \n\t\t\tan identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The <code>Settings</code> resource contains details about the registered \n\t\t\tidentity providers product related configuration settings, such as the \n\t\t\tsubnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the identity provider. ",
"smithy.api#required": {}
}
},
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {

"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider. "
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance that provides user-based
subscriptions. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>IdentityProvider</code> resource specifies details
\n\t\t\tabout the identity provider. ",
"smithy.api#required": {}
}

```
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the instance
user.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the  Active Directory that contains the user
information for the product subscription.</p>"
                }
            },
            "AssociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
                }
            },
            "DisassociationDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
        "type": "list",
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    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
         "smithy.api#error": "server",
        "smithy.api#httpError": 500
    }
},
"com.amazonaws.licensemanagerusersubscriptions#IpV4": {
    "type": "string",
    "traits": {
        "smithy.api#pattern": "^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#IpV4List": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IpV4"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint"
         },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
        },
```

{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResource"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResource"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},

"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id",
"content-length",

"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n\t\ta per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region":
{
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,

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                "default": false,
                "documentation": "When true, send this request to the FIPS-compliant
 regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will
return an error.",
                "type": "Boolean"
            },
            "Endpoint": {
                "builtIn": "SDK::Endpoint",
                "required": false,
                "documentation": "Override the endpoint used to send this request",
                "type": "String"
            }
        },
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",
                        "argv": [
                            {
                                "ref": "Endpoint"
                            }
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "ref": "UseFIPS"
                                    },
                                    true
                                ]
                            }
                        ],
                        "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                        "type": "error"
                    },
                    {
                        "conditions": [
                            {

                                "fn": "booleanEquals",
                                "argv": [
                                    {
```

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                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
    "type": "error"
},
{
    "conditions": [],
    "endpoint": {
        "url": {
            "ref": "Endpoint"
        },

"properties": {},
        "headers": {}
    },
    "type": "endpoint"
}
],
"type": "tree"
},
{
"conditions": [
    {
        "fn": "isSet",
        "argv": [
            {
                "ref": "Region"
            }
        ]
    }
],
"rules": [
    {
        "conditions": [
            {
                "fn": "aws.partition",

            "argv": [
                {
                    "ref": "Region"
                }
            ],
            "assign": "PartitionResult"
        }
```

```
                    ],
                    "rules": [
                      {
                        "conditions": [
                          {
                            "fn": "booleanEquals",
                            "argv": [
                              {
                                "ref": "UseFIPS"
                              },

true
                            ]
                          },
                          {
                            "fn": "booleanEquals",
                            "argv": [
                              {
                                "ref": "UseDualStack"
                              },
                              true
                            ]
                          }
                        ],
                        "rules": [
                          {
                            "conditions": [
                              {

"fn": "booleanEquals",
                                "argv": [
                                  true,
                                  {
                                    "fn": "getAttr",
                                    "argv": [
                                      {
                                        "ref": "PartitionResult"
                                      },
                                      "supportsFIPS"
                                    ]
                                  }
                                ]
                              },

                          {
                                "fn": "booleanEquals",
                                "argv": [
                                  true,
```

```
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"
                                            },
                                            "supportsDualStack"
                                        ]
                                    }

                            ]
                                }
                            ],
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }

    ],
                            "type": "tree"
                        },
                        {
                            "conditions": [],
                            "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                            "type": "error"
                        }
                    ],
                    "type": "tree"
                },
                {
                    "conditions": [
                        {
                            "fn": "booleanEquals",
                            "argv": [

  {
                                    "ref": "UseFIPS"
                                },
                                true
                            ]
```

```
                    }
                ],
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    {
                                        "fn": "getAttr",
                                        "argv": [

                {
                                            "ref": "PartitionResult"
                                        },
                                        "supportsFIPS"
                                    ]
                                },
                                true
                            ]
                        }
                    ],
                    "rules": [
                        {
                            "conditions": [],
                            "endpoint": {

            "url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
                                "properties": {},
                                "headers": {}
                            },
                            "type": "endpoint"
                        }
                    ],
                    "type": "tree"
                },
                {
                    "conditions": [],
                    "error": "FIPS is enabled but this partition does not support FIPS",
                    "type": "error"

}
                ],
                "type": "tree"
            },
            {
                "conditions": [
                    {
```

```
                "fn": "booleanEquals",
                "argv": [
                  {
                    "ref": "UseDualStack"
                  },
                  true
                ]
              }
            ],
            "rules": [
              {

        "conditions": [
                  {
                    "fn": "booleanEquals",
                    "argv": [
                      true,
                      {
                        "fn": "getAttr",
                        "argv": [
                          {
                            "ref": "PartitionResult"
                          },
                          "supportsDualStack"
                        ]

          }
                    ]
                  }
                ],
                "rules": [
                  {
                    "conditions": [],
                    "endpoint": {
                      "url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                      "properties": {},
                      "headers": {}
                    },
                    "type": "endpoint"
                  }

              ],
                "type": "tree"
              },
              {
                "conditions": [],
                "error": "DualStack is enabled but this partition does not support DualStack",
```

"type": "error"
}
],
"type": "tree"
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",

"properties": {},
"headers": {}
},
"type": "endpoint"
}
],
"type": "tree"
}
],
"type": "tree"
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",

"UseFIPS":
true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {

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            "endpoint": {
                "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
            "endpoint":
{
                "url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
             "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
            }
        },
        "params": {
            "Region": "us-gov-east-1",
            "UseFIPS": false,
            "UseDualStack": false
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            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS
and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": false

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        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
                "error": "DualStack is enabled but this partition does not support DualStack"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": false,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
                }

        },
            "params": {
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"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}

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            },
            "params": {
                "Region": "us-isob-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
            "expect": {

          "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
            "expect": {
                "endpoint": {
                    "url": "https://example.com"
                }
            },
            "params": {
                "UseFIPS": false,
                "UseDualStack":
false,
                "Endpoint": "https://example.com"
            }
        },
        {
            "documentation": "For custom endpoint with fips enabled and dualstack disabled",
            "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
            },
            "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
            }
```

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                },
                {
                    "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                    "expect": {
                        "error": "Invalid Configuration:
 Dualstack and custom endpoint are not supported"
                    },
                    "params": {
                        "Region": "us-east-1",
                        "UseFIPS": false,
                        "UseDualStack": true,
                        "Endpoint": "https://example.com"
                    }
                },
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                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServer": {
    "type": "structure",
    "members": {
        "ProvisioningStatus": {
            "target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
             "traits": {
                "smithy.api#documentation": "<p>The current state of the provisioning process for the RDS
\n\t\t\tlicense server.</p>"
            }
        },
        "HealthStatus": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus",
            "traits": {
                "smithy.api#documentation": "<p>The health status of the RDS license server.</p>"
            }
        },
        "Ipv4Address": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>A list of domain IPv4 addresses that are used for the RDS
\n\t\t\tlicense server.</p>"
            }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Information
 about a Remote Desktop Services (RDS) license server.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint": {
        "type": "structure",
        "members": {
            "IdentityProviderArn": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the identity provider that's
associated with \n\t\t\tthe RDS license server endpoint.</p>"
                }
            },
            "ServerType": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
                "traits": {
                    "smithy.api#documentation": "<p>The type of license server.</p>"
                }
            },
            "ServerEndpoint": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint",

   "traits": {
                    "smithy.api#documentation": "<p>The <code>ServerEndpoint</code> resource contains the network
\n\t\t\taddress of the RDS license server endpoint.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The message associated with the provisioning status, if there is
one.</p>"
                }
            },
            "LicenseServerEndpointId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license server endpoint.</p>"
                }
            },
            "LicenseServerEndpointArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits":
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{
"smithy.api#documentation": " The ARN of the <code>ServerEndpoint</code> resource for the RDS \n\t\t\tlicense server. "
}
},
"LicenseServerEndpointProvisioningStatus": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
"traits": {
"smithy.api#documentation": " The current state of the provisioning process for the RDS license \n\t\t\tserver endpoint "
}
},
"LicenseServers": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList",
"traits": {
"smithy.api#documentation": " An array of <code>LicenseServer</code> resources that represent the \n\t\t\tlicense servers that are accessed through this endpoint. "
}
},

"CreationTime": {
"target": "smithy.api#Timestamp",
"traits": {
"smithy.api#documentation": " The timestamp when License Manager created the license server endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains details about a network endpoint for a Remote Desktop Services (RDS) \n\t\t\tlicense server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId": {
"type": "string"
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus": {

"type": "string",
"traits": {
"smithy.api#enum": [

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            {
                "name": "PROVISIONING",
                "value": "PROVISIONING",
                "documentation": ""
            },
            {
                "name": "PROVISIONING_FAILED",
                "value": "PROVISIONING_FAILED",
                "documentation": ""
            },
            {
                "name": "PROVISIONED",
                "value": "PROVISIONED",
                "documentation": ""
            },
            {
                "name": "DELETING",
                "value": "DELETING",
                "documentation": ""
            },
            {
                "name": "DELETION_FAILED",
                "value": "DELETION_FAILED",
                "documentation": ""

            },
            {
                "name": "DELETED",
                "value": "DELETED",
                "documentation": ""
            }
        ]
    }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "HEALTHY",
                "value": "HEALTHY",
                "documentation": ""
            },
            {
                "name": "UNHEALTHY",
                "value": "UNHEALTHY",
                "documentation": ""
            },
```

```
                {
                    "name": "NOT_APPLICABLE",
                    "value": "NOT_APPLICABLE",
                    "documentation": ""
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServer"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings": {
        "type": "structure",
        "members": {
            "ServerType": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
                "traits": {
                    "smithy.api#documentation": "<p>The type of license server.</p>",
                    "smithy.api#required": {}
                }
            },
            "ServerSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerSettings",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>ServerSettings</code> resource contains the settings
for
 your \n\t\t\tserver.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The settings to configure your license server.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
            {
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"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Active Directory identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},

"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use
the following filters to streamline results: \n \n \n Product \n \n
\n DirectoryId \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse": {
"type": "structure",
"members": {
"IdentityProviderSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",

"traits": {
"smithy.api#documentation": " An array of <code>IdentityProviderSummary</code> resources
that contain \n\t\t\tdetails about the Active Directory identity providers that meet the request criteria. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't
empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the
next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
"type": "operation",

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    "input": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },

{
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
    "type": "structure",
    "members":
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{
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n \n \n Status \n \n \n InstanceId \n \n "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " An array of <code>InstanceSummary</code> resources that contain details \n\t\t\tabout the instances that provide user-based subscriptions and also meet the \n\t\t\trequest criteria. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},

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        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>List the Remote Desktop Services (RDS) License Server endpoints
</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/license-server/ListLicenseServerEndpoints"
            },

        "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "LicenseServerEndpoints"
            }
        }
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    },
    "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest": {
        "type": "structure",
        "members": {
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>",
                    "smithy.api#range": {
                        "min": 1,
                        "max": 100
                    }
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n
<ul>\n            <li>\n              <p>IdentityProviderArn</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse": {
        "type": "structure",
        "members": {
            "LicenseServerEndpoints": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of <code>LicenseServerEndpoint</code> resources that
\n\t\t\tcontain detailed information about the RDS License Servers that meet \n\t\t\tthe request criteria.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't
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empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"

```
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "ProductUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest":
 {
        "type": "structure",
        "members": {
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n        </p>"
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                 "traits": {
                    "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n
<ul>\n            <li>\n            <p>Status</p>\n            </li>\n            <li>\n            <p>Username</p>\n
</li>\n            <li>\n            <p>Domain</p>\n            </li>\n        </ul>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating.
```

This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service
hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target":

"com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Returns the list of tags for the specified resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags for the specified resource. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"

```
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/user/ListUserAssociations"
        },
        "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceUserSummaries"
        }
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
    "type": "structure",
    "members": {
        "InstanceId": {
            "target": "smithy.api#String",
            "traits": {
```

"smithy.api#documentation": " The ID of the EC2 instance, which
provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single
request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {

"smithy.api#documentation": " You can use the following filters to streamline results: \n \n
\n Status \n \n \n Username \n \n
\n Domain \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {

"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "

```
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't
empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the
next request to retrieve additional objects.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
        "type": "structure",
        "members": {
            "Username":
 {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for this product
user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
             "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a product for this user.</p>",
                    "smithy.api#required": {}
                }
            },
```

"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for this product user. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for this user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The domain name of the Active Directory that contains the user information for the product subscription. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " A summary of the user-based subscription products for a specific user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type":
"list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings": {
"type": "structure",
"members": {

"RdsSalCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " The <code>CredentialsProvider</code> resource contains a reference to \n\t\t\tthe credentials provider that's used for RDS license server user administration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Server settings that are specific to a Remote Desktop Services (RDS) license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider to register. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits":
{
"smithy.api#documentation": " The registered identity providers product related configuration \n\t\t\tsettings such as the subnets to provision VPC endpoints. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the identity provider's registration. "
}
}
},
"traits": {
"smithy.api#input": {}

```
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
            "type": "structure",
            "members": {
                "IdentityProviderSummary": {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                    "traits": {
                        "smithy.api#documentation":
 "<p>Metadata that describes the results of an identity provider operation.</p>",
                        "smithy.api#required": {}
                    }
                }
            },
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ResourceArn": {
            "type": "string",
            "traits": {
                "smithy.api#pattern": "^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-
\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
            "type": "structure",
            "members": {
                "message": {
                    "target": "smithy.api#String"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The resource couldn't be found.</p>",

       "smithy.api#error": "client",
                "smithy.api#httpError": 404
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider": {
            "type": "structure",
            "members": {
                "SecretId": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The ID of the Secrets Manager secret that contains
credentials.</p>",
                        "smithy.api#length": {
```

"min": 1
}
}
}
},
"traits": {
"smithy.api#documentation": " Contains a credentials secret that's stored in Secrets Manager. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",
"traits": {
"smithy.api#length": {

"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint": {
"type": "structure",
"members": {
"Endpoint": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The network address of the endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " A network endpoint through which you can access one or more servers. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerSettings": {
"type": "union",
"members": {
"RdsSalSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings",
"traits": {
"smithy.api#documentation": " The <code>RdsSalSettings</code> resource contains settings to configure \n\t\t\ta specific Remote Desktop Services (RDS) license server. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains settings for a specific server. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServerType": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "RDS_SAL",
                    "value": "RDS_SAL",
                    "documentation": ""
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {

  "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",

             "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources in\n\t\t\tyour VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
```

```
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings such as the\n\t\t\tsubnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n\t\t\tendpoints. The security group should permit inbound TCP port 1688 communication from resources\n\t\t\tin the VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n\t\t\t\tmonthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
```

"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StartProductSubscription"
}

}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user for whom to start the product \n\t\t\tsubscription. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the product subscription. "
}

}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"

},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

    },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Stops a product subscription for a user with the specified identity
provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StopProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>"
                }
            },
            "IdentityProvider": {
                "target":
 "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>"
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n        </p>"
                }
            },
            "ProductUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the product user.</p>"
```

```
            }
          },
          "Domain": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The domain name of the  Active Directory that contains the user
for whom to stop the product \n\t\t\tsubscription.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
          "ProductUserSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
              "smithy.api#required": {}
            }

    }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
        "member": {
          "target": "smithy.api#String"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
          "smithy.api#pattern": "^subnet-[a-z0-9]{8,17}"
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#TagKeyList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        },
        "traits": {
            "smithy.api#length": {

 "min": 0,
                "max": 50
            },
            "smithy.api#sensitive": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Adds tags to a resource.</p>",
            "smithy.api#http": {
                "method": "PUT",
                "uri": "/tags/{ResourceArn}"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource that you want to tag. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags to apply to the specified resource. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#Tags": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {

"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Removes tags from a resource. ",
"smithy.api#http": {
"method": "DELETE",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource that you want to remove tags from. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

```
            }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>The tag keys to remove from the resource.</p>",
                    "smithy.api#httpQuery": "tagKeys",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity\n\t\t\tprovider.</p>",
            "smithy.api#http": {
```

"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider"
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n
Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n "
}
},

"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider to
update. "
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related
configuration settings. You can\n\t\t\tupdate any combination of settings in a single operation such as the: \n
\n \n Subnets which you want to add to provision VPC endpoints. \n \n
\n Subnets which you want to remove the VPC endpoints from. \n \n
\n Security
group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n\t\t\trequire connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as\n\t\t\tthe subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {

"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
}

ListReceivedLicenses

Initialize stack step

spanInitializeStart

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

spanInitializeEnd

Serialize stack step

spanBuildRequestStart

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

SetCredentialSourceMiddleware

UserAgent

AddTimeOffsetMiddleware

RecursionDetection

spanBuildRequestEnd

Finalize stack step

spanRetryLoop

Retry

RetryMetricsHeader

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS

ComputePayloadHash

setLegacyContextSigningOptions

Signing

Deserialize stack step

AddRawResponseToMetadata

ErrorCloseResponseBody

CloseResponseBody

ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }
```

```
 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
```

```
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if
err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if
err = addCredentialSource(stack, options); err != nil {
 return err
}
```

```
 if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
CheckoutLicense
 Initialize stack step
  spanInitializeStart
```

RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

1.5145 go-util 0.0.0-20230607025951-8b02fee814ae

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1.5146 go-metro 0.0.0-20250106013310-edb8663e5e33

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1.5147 github.com/redis/rueidis 1.0.61

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1.5148 googlecloudgotrace 1.11.4

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//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
```

```
  // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
```

```
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
```

```
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
```

```
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
```

```
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
```

```
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
```

```
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
```

```
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  Insert: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  List: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
```

```
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
   }),
  },
  SetIamPolicy: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
```

```
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
```

```
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}
```

```
// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
```

```
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
```

```
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf,
 resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
```

```
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
```

```
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetLicenseResource()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
```

```
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
```

```
{
 req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
 }
 if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }
 if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from
client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
 if err != nil {
  return err
 }
```

```
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())
```

```
 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
```

```
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
// Copyright 2025 Google LLC
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//
//     https://www.apache.org/licenses/LICENSE-2.0
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2025 Google LLC
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
```

```
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)
```

```
func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
```

```
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":           1,
  "WRITER":          2,
  "READER":          3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
```

```
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
```

```
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor
```

```
var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54,
 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
```

```
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72,
 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
```

```
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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```

```
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
```

```
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2025 Google LLC
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// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
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// limitations under the License.
```

```
// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"

 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 gtransport
 "google.golang.org/api/transport/grpc"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicenseManagementClientHook clientHook

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
type LicenseManagementCallOptions struct {
 GetLicensePool         []gax.CallOption
 UpdateLicensePool      []gax.CallOption
 Assign                 []gax.CallOption
 Unassign               []gax.CallOption
 EnumerateLicensedUsers []gax.CallOption
 GetOperation           []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443")
,
  internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
```

```
  internaloption.EnableJwtWithScope(),
  internaloption.EnableNewAuthLibrary(),
  option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
   grpc.MaxCallRecvMsgSize(math.MaxInt32))),
 }
}

func
 defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
 return &LicenseManagementCallOptions{
  GetLicensePool:        []gax.CallOption{},
  UpdateLicensePool:     []gax.CallOption{},
  Assign:                []gax.CallOption{},
  Unassign:              []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:          []gax.CallOption{},
 }
}

func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
 return
 &LicenseManagementCallOptions{
  GetLicensePool:        []gax.CallOption{},
  UpdateLicensePool:     []gax.CallOption{},
  Assign:                []gax.CallOption{},
  Unassign:              []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:          []gax.CallOption{},
 }
}

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce
Consumer Procurement API.
type internalLicenseManagementClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
 Unassign(context.Context, *procurementpb.UnassignRequest,
 ...gax.CallOption) (*procurementpb.UnassignResponse, error)
 EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
 GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
```

```
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseManagementClient

 // The call options for this service.
 CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient)
```

```
 UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption)
(*procurementpb.LicensePool, error) {
 return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts
...gax.CallOption) (*procurementpb.AssignResponse, error) {
 return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts
...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 return c.internalClient.EnumerateLicensedUsers(ctx,
 req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 return c.internalClient.GetOperation(ctx, req, opts...)
}

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API
over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementGRPCClient struct {
 // Connection pool of gRPC connections to the service.
 connPool gtransport.ConnPool

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 // The gRPC API client.
 licenseManagementClient procurementpb.LicenseManagementServiceClient

 operationsClient longrunningpb.OperationsClient

 //
```

```
 The x-goog-* metadata to be sent with each request.
 xGoogHeaders []string

 logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
 clientOpts := defaultLicenseManagementGRPCClientOptions()
 if newLicenseManagementClientHook != nil {
  hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{})
  if err != nil {
   return nil, err
  }
  clientOpts = append(clientOpts, hookOpts...)
 }

 connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
 if err != nil {
  return nil, err
 }
 client := LicenseManagementClient{CallOptions: defaultLicenseManagementCallOptions()}

 c := &licenseManagementGRPCClient{
  connPool:
      connPool,
  licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
  CallOptions:            &client.CallOptions,
  logger:                 internaloption.GetLogger(opts),
  operationsClient:       longrunningpb.NewOperationsClient(connPool),
 }
 c.setGoogleClientInfo()

 client.internalClient = c

 return &client, nil
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
 return c.connPool.Conn()
```

```
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
 grpc.Version)
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
 return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicenseManagementClient, error) {
 clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }
```

```
 callOpts := defaultLicenseManagementRESTCallOptions()
 c := &licenseManagementRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAI
N"),
  internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
```

```
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
 return nil
}
func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
  return err
 }, opts...)
 if err != nil {
  return
 nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
  return err
 }, opts...)
 if err != nil {
  return nil, err
```

```
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
 req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 var resp *procurementpb.AssignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds
 = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 var resp *procurementpb.UnassignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOp
tions).EnumerateLicensedUsers)],
 opts...)
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
  if pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
  } else if pageSize != 0 {
   req.PageSize = int32(pageSize)
  }
  err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   var err error
   resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
   return err
  }, opts...)
  if err != nil {
   return nil, "", err
  }

  it.Response = resp
  return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
 }
 fetch := func(pageSize int,
 pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetPageSize())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
```

```
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 var resp *longrunningpb.Operation
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  var err error
  resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.LicensePool{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
 opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 body := req.GetLicensePool()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
 if req.GetUpdateMask() != nil {
  field, err := protojson.Marshal(req.GetUpdateMask())
```

```
 if err != nil {
  return nil, err
 }
 params.Add("updateMask", string(field[1:len(field)-1]))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers
:= gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

```
// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
 context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp
 := &procurementpb.AssignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
  if err != nil {
   return err
  }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return
 nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.UnassignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(),
```

```
 bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
  if
 pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
  } else if pageSize != 0 {
   req.PageSize = int32(pageSize)
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

  params := url.Values{}
```

```
 params.Add("$alt", "json;enum-encoding=int")
 if req.GetPageSize() != 0 {
  params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
 }
 if req.GetPageToken() != "" {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
```

```
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetPageSize())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
 *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &longrunningpb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
```

```
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
// Copyright 2025 Google LLC
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"
```

```
 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
```

```
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
```

```
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string
 {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
 accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
```

```
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.P
ermission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 if x != nil {
```

```
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
 0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
```

0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,

```
 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
 0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
 0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
 0x61, 0x67,
 0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
```

```
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
 if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
 = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

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```

```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
```

```
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}
```

```
func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
```

```
 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
```

```
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
```

```
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
```

```
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
```

```
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}
```

```
func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}
```

```
func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
```

```
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
```

```
 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo()
 == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if x != nil {
```

```
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 //
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}
```

```
func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}
```

```
// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
```

```
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
```

```
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f,
 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x64,
 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
```

0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
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0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
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0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
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0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,
0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
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0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
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0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,

0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x43, 0x6f, 0x75, 0x6e, 0x74, 0x12, 0x33, 0x0a, 0x13, 0x74, 0x6f,
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0x74, 0x18, 0x04, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03, 0xe0, 0x41, 0x03, 0x52, 0x11, 0x74, 0x6f,
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0x0b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x22, 0x30, 0x0a, 0x15,
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0x41, 0x02, 0x52, 0x0b, 0x6c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12,
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0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x46, 0x69, 0x65, 0x6c, 0x64, 0x4d, 0x61, 0x73, 0x6b,
0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x0a, 0x75, 0x70, 0x64, 0x61, 0x74, 0x65, 0x4d, 0x61, 0x73,
0x6b, 0x22, 0x4f, 0x0a, 0x0d, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x71, 0x75, 0x65,
0x73, 0x74, 0x12, 0x1b, 0x0a, 0x06, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74, 0x18, 0x01, 0x20, 0x01,
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0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x52, 0x09, 0x75, 0x73, 0x65, 0x72, 0x6e, 0x61, 0x6d,
0x65, 0x73, 0x22, 0x10, 0x0a, 0x0e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x52,
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0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x65, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74,
0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55, 0x73, 0x65, 0x72, 0x73, 0x1a, 0x63,
0xca, 0x41, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65,
0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d,
0x65, 0x6e, 0x74, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63,
0x6f, 0x6d, 0xd2, 0x41, 0x2e, 0x68, 0x74, 0x74, 0x70, 0x73, 0x3a, 0x2f, 0x2f, 0x77, 0x77, 0x77,
0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d, 0x2f,
0x61, 0x75, 0x74, 0x68, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2d, 0x70, 0x6c, 0x61, 0x74, 0x66,
0x6f, 0x72, 0x6d, 0x42, 0xbe, 0x02, 0x0a, 0x31, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64,
0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63,
0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75,
0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x42, 0x1d, 0x4c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x4d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x53, 0x65, 0x72, 0x76,
0x69, 0x63, 0x65, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x53, 0x63, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f,
0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65,
0x72, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x61, 0x70,
0x69, 0x76, 0x31, 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70,
0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
0x64, 0x2e, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
0x5c, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5c, 0x56, 0x31, 0xea,

```
 0x02, 0x32, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x3a, 0x3a, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x3a,
 0x3a, 0x43, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x3a, 0x3a, 0x43, 0x6f, 0x6e, 0x73, 0x75,
 0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                     // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
```

```
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                   // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                   // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                     // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
```

```
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
```

```
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
```

```
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
```

```
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}
```

```
func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
```

```
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
```

```
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
   Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
  },
 },
 Streams:  []grpc.StreamDesc{},
 Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
```

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other entities that control, are controlled by, or are under common
control with that entity. For the purposes of this definition,
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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get              []gax.CallOption
 TestIamPermissions []gax.CallOption
```

```
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close()
 error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.
```

```
// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx,
 req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client
```

```
 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions

 logger *slog.Logger
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified
 resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
```

1.5149 github.com/thanos-io/promql-engine 0.0.0-20250522103302-dd83bd8fdb50

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1.5150 google-cloud-go-auth 0.15.1-0.20250317171031-671eed979bfd

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
```

```
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
```

```
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
```

```
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
```

```
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert()
{
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
}
op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
```

```
 // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
```

```
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
// This snippet has been automatically
generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete            []gax.CallOption
 Get               []gax.CallOption
 GetIamPolicy      []gax.CallOption
 Insert            []gax.CallOption
 List              []gax.CallOption
 SetIamPolicy      []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
```

```
return &LicensesCallOptions{
 Delete: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 Get: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 GetIamPolicy:
[]gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
```

```
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
```

```
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution
This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
```

```
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
```

```
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
```

```
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf,
 resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
```

```
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
```

```
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx,
 hds...)
 opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
```

```
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}

// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
  {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
```

```
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from
client and context metadata.
hds := append(c.xGoogHeaders, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
 if err != nil {
  return err
 }
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, "", e
}
```

```
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
```

```
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
```

```
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
// Copyright 2025 Google LLC
//
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```

```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2025 Google LLC
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
```

```
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}
```

```
func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)
```

```
func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
```

```
 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
```

```
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
```

0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12,
0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
0x54,
0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
0x72, 0x6f, 0x6c, 0x65, 0x42,
0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,

```
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72,
 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
```

```
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"
```

```
 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

```
func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
```

```
 "math"
 "net/http"
 "net/url"

 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 gtransport
 "google.golang.org/api/transport/grpc"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicenseManagementClientHook clientHook

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
type LicenseManagementCallOptions struct {
 GetLicensePool         []gax.CallOption
 UpdateLicensePool      []gax.CallOption
 Assign                 []gax.CallOption
 Unassign               []gax.CallOption
 EnumerateLicensedUsers []gax.CallOption
 GetOperation           []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443")
,
  internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableJwtWithScope(),
  internaloption.EnableNewAuthLibrary(),
  option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
   grpc.MaxCallRecvMsgSize(math.MaxInt32))),
 }
}

func
```

```
 defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
 return &LicenseManagementCallOptions{
  GetLicensePool:        []gax.CallOption{},
  UpdateLicensePool:     []gax.CallOption{},
  Assign:                []gax.CallOption{},
  Unassign:              []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:          []gax.CallOption{},
 }
}

func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
 return
 &LicenseManagementCallOptions{
  GetLicensePool:        []gax.CallOption{},
  UpdateLicensePool:     []gax.CallOption{},
  Assign:                []gax.CallOption{},
  Unassign:              []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:          []gax.CallOption{},
 }
}

// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce
Consumer Procurement API.
type internalLicenseManagementClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
 Unassign(context.Context, *procurementpb.UnassignRequest,
 ...gax.CallOption) (*procurementpb.UnassignResponse, error)
 EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
 GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// Service for managing licenses.
```

```
type LicenseManagementClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseManagementClient

 // The call options for this service.
 CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient)
 UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption)
(*procurementpb.LicensePool, error) {
 return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts
...gax.CallOption) (*procurementpb.AssignResponse, error) {
```

```
 return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts
...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 return c.internalClient.EnumerateLicensedUsers(ctx,
 req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 return c.internalClient.GetOperation(ctx, req, opts...)
}

// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API
over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementGRPCClient struct {
 // Connection pool of gRPC connections to the service.
 connPool gtransport.ConnPool

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 // The gRPC API client.
 licenseManagementClient procurementpb.LicenseManagementServiceClient

 operationsClient longrunningpb.OperationsClient

 //
 The x-goog-* metadata to be sent with each request.
 xGoogHeaders []string

 logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
```

```
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
 clientOpts := defaultLicenseManagementGRPCClientOptions()
 if newLicenseManagementClientHook != nil {
  hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{})
  if err != nil {
   return nil, err
  }
  clientOpts = append(clientOpts, hookOpts...)
 }

 connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
 if err != nil {
  return nil, err
 }
 client := LicenseManagementClient{CallOptions: defaultLicenseManagementCallOptions()}

 c := &licenseManagementGRPCClient{
  connPool:
     connPool,
  licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
  CallOptions:            &client.CallOptions,
  logger:                 internaloption.GetLogger(opts),
  operationsClient:       longrunningpb.NewOperationsClient(connPool),
 }
 c.setGoogleClientInfo()

 client.internalClient = c

 return &client, nil
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
 return c.connPool.Conn()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
```

```
 grpc.Version)
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
 return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicenseManagementClient, error) {
 clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseManagementRESTCallOptions()
 c := &licenseManagementRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
```

```
 c.setGoogleClientInfo()

 return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAI
N"),
  internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
 return nil
}
func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}
```

```
 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
  return err
 }, opts...)
 if err != nil {
  return
 nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
 req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
```

```
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 var resp *procurementpb.AssignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds
 = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 var resp *procurementpb.UnassignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOp
tions).EnumerateLicensedUsers)],
 opts...)
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
```

```
  if pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
  } else if pageSize != 0 {
   req.PageSize = int32(pageSize)
  }
  err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   var err error
   resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
   return err
  }, opts...)
  if err != nil {
   return nil, "", err
  }

  it.Response = resp
  return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
 }
 fetch := func(pageSize int,
 pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetPageSize())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 var resp *longrunningpb.Operation
```

```
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  var err error
  resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.LicensePool{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
 opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 body := req.GetLicensePool()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
 if req.GetUpdateMask() != nil {
  field, err := protojson.Marshal(req.GetUpdateMask())
  if err != nil {
   return nil, err
  }
  params.Add("updateMask", string(field[1:len(field)-1]))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
```

```
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers
 := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.LicensePool{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
 context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return nil, err
```

```
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

params := url.Values{}
params.Add("$alt", "json;enum-encoding=int")

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx, hds...)
opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp
:= &procurementpb.AssignResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
```

```
 return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return
 nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.UnassignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(),
 bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
  if err != nil {
   return err
```

```
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
  if
 pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
  } else if pageSize != 0 {
   req.PageSize = int32(pageSize)
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

  params := url.Values{}
  params.Add("$alt", "json;enum-encoding=int")
  if req.GetPageSize() != 0 {
   params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
  }
  if req.GetPageToken() != "" {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }

  baseUrl.RawQuery = params.Encode()
```

```
 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

// GetOperation is a utility method from google.longrunning.Operations.
```

```
func (c
 *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &longrunningpb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
```

```
 if e != nil {
  return nil, e
 }
 return resp, nil
}
// Copyright 2025 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
```

```
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
// Copyright 2025 Google LLC
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//
//     http://www.apache.org/licenses/LICENSE-2.0
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
```

```
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}
```

```
func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
```

```
 return p
}

func (x Permission_Role) String() string
 {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
 accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
```

```
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.P
ermission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
```

```
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
 0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
```

0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
0x4e,
0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
0x2e, 0x63, 0x6f, 0x6d,
0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,

```
 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
 0x61, 0x67,
 0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
 if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
  return
```

```
 }
 file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:          file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
 = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

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```
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
```

```
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
```

```
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}

type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
```

```
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
```

```
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}

// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
```

```
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
```

```
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
```

```
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}
```

```
func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
```

```
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
```

```
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}
```

```
func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}
```

```
func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo()
 == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
 if x != nil {
  return x.PageSize
 }
 return 0
}
```

```
func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
 if x != nil {
  return x.PageToken
 }
 return ""
}

// A licensed user.
type LicensedUser struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Username.
 // Format: `name@domain.com`.
 Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
 //
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
```

```
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
```

```
 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
```

```
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
```

```
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}

func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
```

```
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f,
 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63,
 0x6f,
 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a,
 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f,
 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f,
 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f,
 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x64,
 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f,
 0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70,
 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f,
 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e,
 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a,
 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e,
 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d,
 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
```

0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c,
0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41,
0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01,
0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e,
0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73,
0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e,
0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79,
0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e,
0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75,
0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65,
0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65,
0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69,
0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01,
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0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
```

```
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                     // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                   // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
```

```
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
```

```
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].OneofWrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
```

```
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
```

```
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
```

```
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
```

```
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}
```

```
func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
```

```
  MethodName: "GetLicensePool",
  Handler:    _LicenseManagementService_GetLicensePool_Handler,
 },
 {
  MethodName: "UpdateLicensePool",
  Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
 },
 {
  MethodName: "Assign",
  Handler:
   _LicenseManagementService_Assign_Handler,
 },
 {
  MethodName: "Unassign",
  Handler:    _LicenseManagementService_Unassign_Handler,
 },
 {
  MethodName: "EnumerateLicensedUsers",
  Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
 },
},
Streams:  []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
```

```
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close()
 error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
```

```
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx,
 req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions

 logger *slog.Logger
}

// NewLicenseCodesRESTClient
```

```
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
```

```
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers
```

```
  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified
 resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
```

```
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.5151 opentelemetry-operations-go-internal-resourcemapping 0.52.0

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1.5152 baidubce-bce-sdk-go 0.9.230

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1.5153 github.com/prometheus/otlptranslator 0.0.0-20250527173959-2573485683d5

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1.5154 lightstep-lightstep-tracer-go 0.26.0

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1.5155 github.com/aws/aws-sdk-go-v2/service/sts 1.33.20

1.5155.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
   - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
```

```
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err =
addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return
 err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
```

```
        python-version: ${{ matrix.python-version }}
    # ScanCode
    - name: Self-configure scancode
      working-directory: ./scancode-toolkit
      run: ./scancode --help
    - name: Run Scan code on target
      run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
    - name: Run Scan code on pr ref
      run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
DeleteLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
```

AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
ListLicenses
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware

```
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}
```

```
type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
 err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
```

```
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if
err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options);
 err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
```

```
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
```

```
if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
 return err
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err !=
nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err
 != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
```

```
 if
 err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
 //
 //   - ProductSKU
 //
 //   - Fingerprint
 //
 //   - Status
 Filters
 []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
```

```
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack);
 err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}
```

```
func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListLicenses",
 }
}
DisassociateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
```

RequestResponseLogger
CheckoutBorrowLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckInLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter

```
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
```

```
}
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err
!= nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options);
err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if err = addSpanInitializeEnd(stack); err != nil {
 return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
 return err
```

```
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return
 nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {
```

```
// License beneficiary.
//
// This member is required.
Beneficiary *string

// Unique, case-sensitive identifier that you provide to ensure the idempotency of
// the request.
//
//
This member is required.
ClientToken *string

// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string
```

```
 // Date and time range during which the license is valid, in ISO8601-UTC format.
 //
 // This member is required.
 Validity *types.DatetimeRange

 // Information about
 the license.
 LicenseMetadata []types.Metadata

 // Tags to add to the license. For more information about tagging support in
 // License Manager, see the [TagResource]operation.
 //
 // [TagResource]: https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html
 Tags []types.Tag

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{},
 middleware.After)
 if err != nil {
  return err
```

```
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err
= addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
```

```
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return
 err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
```

```
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CreateLicense",
 }
}
```

AWS SDK for Go

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AssociateLicense

```
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
```

```
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
 // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
 //
```

```
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
```

```
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
```

```
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options);
```

```
err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if err = addSpanInitializeEnd(stack); err != nil {
 return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
 return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
return &awsmiddleware.RegisterServiceMetadata{
 Region:       region,
 ServiceID:     ServiceID,
 OperationName: "CheckoutBorrowLicense",
}
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider": {
          "type": "operation",
          "input": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest"
          },
          "output": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse"
          },
          "errors": [
              {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions \n\t\t\tregistered to your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/DeregisterSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the subscription provider resource to deregister. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {

"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Get details for a Bring Your Own License (BYOL) subscription that's
registered to your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetRegisteredSubscriptionProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation":
 "<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details for.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) for the BYOL registration
resource specified in the request.</p>"
                }
            },
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
```

"traits": {
"smithy.api#documentation": " The subscription provider for the BYOL registration resource specified \n\t\t\tin the request. "
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL \n\t\t\tregistration resource specified in the request. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " The status of the Linux subscription provider access token from the last \n\t\t\tsuccessful subscription data request. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The detailed message from your subscription provider token status. "
}
},
"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time License Manager retrieved subscription details \n\t\t\tfrom your registered third-party Linux subscription provider. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings for your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"

         },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists
 the settings defined for Linux subscriptions discovery. The settings include if\n      Organizations integration has
been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
```

```
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }
            },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
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"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the license subscription that the instance uses. "
}
},
"OsVersion": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The operating system software version that runs on your instance. "
}
},
"SubscriptionProviderCreateTime": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp when you registered
the third-party Linux subscription \n\t\t\tprovider for the subscription that the instance uses. "
}
},
"SubscriptionProviderUpdateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that the instance synced with the
registered \n\t\t\tthird-party Linux subscription provider. "
}
},
"DualSubscription": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Indicates that you have two different license subscriptions for
\n\t\t\tthe same software on your instance. "
}
},
"RegisteredWithSubscriptionProvider": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Indicates that your instance uses a BYOL license subscription from \n\t\t\ta
third-party Linux subscription provider that you've registered with License Manager. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux
subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation":
" An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"

},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager,
you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},

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    "Endpoint": {
      "builtIn": "SDK::Endpoint",
      "required": false,
      "documentation": "Override the endpoint used to send this request",
      "type": "String"
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          "fn": "isSet",
          "argv": [
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              "ref": "Endpoint"
            }
          ]
        }
      ],
      "rules": [
        {
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            {
              "fn": "booleanEquals",
              "argv": [
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                  "ref": "UseFIPS"
                },
                true
              ]
            }

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          "type": "error"
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          "conditions": [],
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              "conditions": [
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                  "fn": "booleanEquals",
                  "argv": [
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                      "ref": "UseDualStack"
                    },
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}
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                    "type": "error"
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                            "ref": "Endpoint"
                        },
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                        "headers": {}
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                    "type": "endpoint"
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            "type": "tree"

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                        "argv": [
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                                "ref": "Region"
                            }
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        "fn": "aws.partition",
                                "argv": [
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                                        "ref": "Region"
```

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                        "argv": [
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                      "ref": "UseFIPS"
                            },
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                        "argv": [
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                                "ref": "UseDualStack"
                            },
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                                        "argv": [
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                                                "ref": "PartitionResult"

},
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
```

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                      "argv": [
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                            {
                                "ref": "PartitionResult"
                              },
                              "supportsDualStack"
                            ]
                        }
                      ]
                    }
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                  "rules": [
                    {
                      "conditions": [],

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                          "conditions": [],
                          "endpoint": {
                              "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                              "properties": {},
                              "headers": {}
                          },
                          "type": "endpoint"
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                  "conditions": [],
                  "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",

                  "type": "error"
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              "type": "tree"
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"rules": [
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"conditions": [
{

"fn": "booleanEquals",
"argv": [
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"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
},
"supportsFIPS"
]
},
true

]
}
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"conditions": [],
"rules": [
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"conditions": [],
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fips.{Region}.{PartitionResult#dnsSuffix}",

"properties": {},
"headers": {}
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"type": "endpoint"
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        "conditions": [],
        "error": "FIPS is enabled
but this partition does not support FIPS",
        "type": "error"
    }
],
"type": "tree"
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"conditions": [
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        "fn": "booleanEquals",
        "argv": [
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                "ref": "UseDualStack"
            },
            true

]
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        "conditions": [
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                "fn": "booleanEquals",
                "argv": [
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                        "fn": "getAttr",
                        "argv": [
                            {

                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
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            }
```

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                                            "conditions": [],
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
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                                                    "headers": {}
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                                    "type": "error"
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}
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                                    "type": "endpoint"
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"error": "Invalid Configuration: Missing Region",
"type": "error"
}
],
"type": "tree"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"

}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{

"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {

"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{

"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-gov-east-1",
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"UseDualStack": false
}
},
{
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"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {

"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}

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        },
        {
          "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
            }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": true,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack
enabled",
          "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS": false,
            "UseDualStack": true
          }
        },
        {
          "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
          "expect": {
            "endpoint": {
              "url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
            }
          },
          "params": {
            "Region": "us-iso-east-1",
            "UseFIPS":
false,
            "UseDualStack": false
          }
        },
        {
          "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
          "expect": {
            "error": "FIPS and DualStack are enabled, but this partition does not support one or both"
          },
          "params": {
            "Region": "us-isob-east-1",
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"UseDualStack": true
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{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
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"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}

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    },
                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": false,
                  "UseDualStack": false,
                  "Endpoint": "https://example.com"
                }
              },
              {
                "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
                "expect": {
                  "endpoint": {
                    "url": "https://example.com"
                  }
                },
                "params": {
                  "UseFIPS": false,
                  "UseDualStack": false,
                  "Endpoint": "https://example.com"
                }
              },
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                "documentation": "For custom endpoint with fips enabled and dualstack disabled",
                "expect": {
                  "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
                },
                "params": {
                  "Region": "us-east-1",
                  "UseFIPS": true,
                  "UseDualStack": false,
                  "Endpoint": "https://example.com"
                }
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                "documentation": "For custom endpoint with fips disabled and dualstack enabled",
                "expect": {
                  "error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
                },
                "params": {

 "Region": "us-east-1",
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                  "UseDualStack": true,
                  "Endpoint": "https://example.com"
                }
              },
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                {
                    "documentation": "Missing region",
                    "expect": {
                        "error": "Invalid Configuration: Missing Region"
                    }
                }
            ],
            "version": "1.0"
        }
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"

 },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
    "type": "structure",
    "members": {
        "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
            "traits": {
                "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
                "smithy.api#required": {}
            }
        },
        "OrganizationIntegration": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
            "traits": {
                "smithy.api#documentation":
 "<p>Details if you have enabled resource discovery across your accounts in Organizations.</p>",
                "smithy.api#required": {}
            }
        }
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```
        },
        "traits": {
            "smithy.api#documentation": "<p>Lists the settings defined for discovering Linux subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },

  {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the running Amazon EC2 instances that were discovered with
commercial Linux\n      subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptionInstances"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "Instances"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest":
 {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
```

"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results by your specified criteria. \n \tFor example, you can specify <code>Region</code> in the <code>Name</code>, with the \n \t<code>contains</code> operator to list all subscriptions that match a partial string in the \n \t<code>Value</code>, such as <code>us-west</code>. \n For each filter, you can specify one of the following values for the <code>Name</code> key \n \tto streamline results: \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>DualSubscription</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n For each filter, you can use one of the following <code>Operator</code>
values to \n \t\tdefine the behavior of the filter: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to
start paginating. This \n\tis the nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {

"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",

"outputToken": "NextToken",
"pageSize": "MaxResults",

"items": "Subscriptions"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The
valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis
the nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"

},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListRegisteredSubscriptionProviders"

```
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "RegisteredSubscriptionProviders"
            }
        }

    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSources": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList",
                "traits": {
                    "smithy.api#documentation": "<p>To filter your results, specify which subscription providers to
return \n\t\t\tin the list.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum items to return in a request.</p>",
                    "smithy.api#range": {
                        "min": 1,
                        "max": 100
                    }
                }

  },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This \n\tis the
nextToken from a previously truncated response.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse": {
        "type": "structure",
        "members": {
            "RegisteredSubscriptionProviders": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList",
"traits": {
"smithy.api#documentation": " The list of BYOL registration resources that fit the criteria \n\t\t\tyou specified in the request. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List the metadata tags that are assigned to the \n\t\t\tspecified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{resourceArn}"
},
"smithy.api#readonly": {}

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "resourceArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                 "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource for which to
list metadata tags.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "tags": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The metadata tags for the requested resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
         }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "EQUAL",
                    "value": "Equal",
                    "documentation": "Equal operator"
                },
                {
                    "name": "NOT_EQUAL",
                    "value": "NotEqual",
                    "documentation": "Not equal operator"
                },
                {
```

"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration":
{
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/RegisterSubscriptionProvider"

},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " The supported Linux subscription provider to register. ",
"smithy.api#required": {}
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For \n\t\t\tRHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains \n\t\t\tyour Red Hat Offline token. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to your registered Linux subscription provider \n\t\t\tresource. "
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
                "traits": {
                    "smithy.api#documentation":
 "<p>The Linux subscription provider that you registered.</p>"
                }
            },
            "SubscriptionProviderArn": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Linux subscription
provider resource that you registered.</p>"
                }
            },
            "SubscriptionProviderStatus": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of the registration action for the Linux
subscription provider \n\t\t\tthat you requested.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider":
 {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Linux subscription
provider resource that you registered.</p>"
                }
            },
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
                "traits": {
                    "smithy.api#documentation": "<p>A supported third-party Linux subscription provider. License
Manager currently supports \n\t\t\tRed Hat subscriptions.</p>"
                }
            },
```

"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider \n\t\t\taccess token. For RHEL account subscriptions, this is the offline token. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " Indicates the status of your registered Linux subscription provider access token \n\t\t\tfrom the last time License Manager retrieved subscription data. For RHEL account subscriptions, \n\t\t\tthis is the status of the offline token. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " A detailed message that's associated with your BYOL subscription \n\t\t\tprovider token status. "
}
},
"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that License Manager accessed third-party subscription data \n\t\t\tfor your account from your registered Linux subscription provider. "
}
}
},
"traits": {
"smithy.api#documentation": " A third-party provider for operating system (OS) platform software and license \n\t\t\tsubscriptions, such as Red Hat. When you register a third-party Linux subscription \n\t\t\tprovider, License Manager can get subscription data from the registered provider. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList":
{
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {

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            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Unable to find the requested Amazon Web Services resource.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-
\\.]{0,63}:secret:[^/]{1,1023}$"

  }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "InProgress",
                    "value": "InProgress",
                    "documentation": "InProgress status"
                },
                {
                    "name": "Completed",
                    "value": "Completed",
                    "documentation": "Completed status"
                },
                {
                    "name": "Successful",
                    "value": "Successful",
                    "documentation": "Successful status"
                },
                {
                    "name": "Failed",
                    "value": "Failed",
                    "documentation": "Failed status"
                }
            ]
        }
    },

    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name":
{
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "
}
},
"Type": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this

subscription. "
                }
            }
        },
        "traits": {
            "smithy.api#documentation": " An object which details a discovered Linux subscription. "
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [

{
                "name": "RedHat",
                "value": "RedHat",
                "documentation": "RedHat subscription provider namespace"
            }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                "name": "ACTIVE",
                "value": "ACTIVE",
                "documentation": "ACTIVE status"

```
            },
            {
                "name": "INVALID",
                "value": "INVALID",

"documentation": "INVALID status"
            },
            {
                "name": "PENDING",
                "value": "PENDING",
                "documentation": "PENDING status"
            }
        ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String"
    },
    "traits": {
        "smithy.api#length": {
            "min": 0,
            "max": 50
        },
        "smithy.api#sensitive": {}
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource": {
    "type": "operation",
    "input": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse"
     },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
        }
    ],
    "traits": {
```

"smithy.api#documentation": " Add metadata tags to the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "PUT",
"uri": "/tags/{resourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest": {
"type": "structure",
"members":
{
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified \n\t\t\tmetadata tags. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to the Amazon Web Services resource. Tags are \n\t\t\tformatted as key value pairs. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Tags": {
"type": "map",
"key": {
"target": "smithy.api#String"
},

"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation":
" The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "DELETE",
"uri": "/tags/{resourceArn}"
},
"smithy.api#idempotent": {}

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "resourceArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the Amazon Web Services
resource to remove the metadata tags from.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            },
            "tagKeys": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList",
                "traits": {

            "smithy.api#documentation": "<p>A list of metadata tag keys to remove from the requested
\n\t\t\tresource.</p>",
                    "smithy.api#httpQuery": "tagKeys",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"

     },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates the service settings for Linux subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/UpdateServiceSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if the discovery of Linux subscriptions is enabled.</p>",
                    "smithy.api#required": {}
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The settings defined for Linux subscriptions discovery. The
settings include if Organizations\n      integration has been enabled, and which Regions data will be aggregated
from.</p>",
                    "smithy.api#required": {}
                }
            },
            "AllowUpdate": {
                "target":
 "smithy.api#Boolean",
                "traits": {
                    "smithy.api#documentation": "<p>Describes if updates are allowed to the service settings for Linux
subscriptions. If you\n      allow updates, you can aggregate Linux subscription data in more than one home
Region.</p>"
                }
            }
        }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}

},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},

```
            "traits": {
                "smithy.api#documentation": "<p>The provided input is not valid. Try your request again.</p>",
                "smithy.api#error": "client"
            }
        }
    }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
```

```
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
 struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
```

```
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack,
```

```
 c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack);
 err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
```

```
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType
```

```
 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn
```

```
 *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack,
 c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
```

```
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack);
 err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
CreateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
```

OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
GetLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent

AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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```
{
  "smithy": "2.0",
  "shapes": {
    "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
      "type": "structure",
      "members": {
        "message": {
          "target": "smithy.api#String"
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
        "smithy.api#error": "client"
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
      "type": "structure",
      "members": {
        "DirectoryId": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Directory",
          "traits": {
            "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
          }
        },
        "ActiveDirectorySettings":
 {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings",
          "traits": {
            "smithy.api#documentation": "<p>The <code>ActiveDirectorySettings</code> resource contains
details about \n\t\t\tthe Active Directory, including network access details such as domain name and IP
\n\t\t\taddresses, and the credential provider for user administration.</p>"
          }
        },
        "ActiveDirectoryType": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType",
          "traits": {
            "smithy.api#documentation": "<p>The type of Active Directory  either a self-managed Active
Directory or an \n\t\t\tAmazon Web Services Managed Active Directory.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#documentation": "<p>Details about an Active Directory identity
```

provider. "
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings": {
        "type": "structure",
        "members": {
            "DomainName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The domain name for the Active Directory. "
                }
            },
            "DomainIpv4List": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IpV4List",
                "traits": {
                    "smithy.api#documentation": " A list of domain IPv4 addresses that are used for the Active Directory. ",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 2
                    }
                }
            },
            "DomainCredentialsProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
                "traits": {
                    "smithy.api#documentation": " Points to the <code>CredentialsProvider</code> resource that contains \n\t\t\tinformation about the credential provider for user administration. "
                }
            },
            "DomainNetworkSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings",
                "traits": {
                    "smithy.api#documentation": " The <code>DomainNetworkSettings</code> resource contains an array of \n\t\t\tsubnets that apply for the Active Directory. "
                }
            }
        },
        "traits": {
            "smithy.api#documentation": " Contains network access and credential details that are needed for \n\t\t\tuser administration in the Active Directory. "
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType": {
        "type": "string",
        "traits": {

"smithy.api#enum": [
{
"name": "SELF_MANAGED",
"value": "SELF_MANAGED",
"documentation": "SELF_MANAGED type of Active Directory"
},
{
"name": "AWS_MANAGED",
"value": "AWS_MANAGED",
"documentation": "AWS_MANAGED type of Active Directory"
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#Arn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser":
{
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n\t\t\t\tmonthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http":
 {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance that provides the user-based
subscription.</p>",
                    "smithy.api#required": {}
                }
            },
             "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "Domain": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to associate. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply for the user association. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n\t\t\tresource. ",
"smithy.api#error": "server"
}
},

"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/CreateLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",

"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details \n\t\t\tabout a registered identity provider. In the case of Active Directory, that can be \n\t\t\ta self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. ",
"smithy.api#required": {}
}
},
"LicenseServerSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings",
"traits": {
"smithy.api#documentation": " The <code>LicenseServerSettings</code> resource to create for the endpoint. The \n\t\t\tsettings include the type of license server and the Secrets Manager secret that \n\t\t\tenables administrators to add or remove users associated with the \n\t\t\tlicense server. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply for the license server endpoint. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider specified in the request. "
}
},
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The ARN of the <code>LicenseServerEndpoint</code> resource. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider": {
"type": "union",
"members": {
"SecretsManagerCredentialsProvider":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider",
"traits": {
"smithy.api#documentation": " Identifies the Secrets Manager secret that contains credentials needed for \n\t\t\tuser administration in the Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains information about the credential provider for user \n\t\t\tadministration. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Deletes a <code>LicenseServerEndpoint</code> resource. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/DeleteLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> \n\t\t\tresource to delete. ",
"smithy.api#required": {}
}
},
"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of License Server that the delete request refers to. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"LicenseServerEndpoint": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint",
"traits": {
"smithy.api#documentation": " Shows details from the <code>LicenseServerEndpoint</code>
resource that was deleted. "
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the Active Directory identity provider from License Manager user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest":

```
 {
        "type": "structure",
        "members": {
          "IdentityProvider": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
            "traits": {
              "smithy.api#documentation": "<p>An object that specifies details for the Active Directory identity
provider.</p>"
            }
          },
          "Product": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n        </p>"
            }
          },
          "IdentityProviderArn": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
             "traits": {
              "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the identity
provider to deregister.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
              "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",
              "smithy.api#required": {}
            }
          }
        },
        "traits": {
          "smithy.api#output": {}

    }
      },
```

"com.amazonaws.licensemanagerusersubscriptions#Directory": {
"type": "string",
"traits": {
"smithy.api#pattern": "^(d|sd)-[0-9a-f]{10}$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}

```
    }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
      "type": "structure",
      "members": {
        "Username": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The user name from the Active Directory identity provider for the
user.</p>"
          }
        },
        "InstanceId": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The ID of the EC2 instance which provides user-based
subscriptions.</p>"
          }
        },
        "IdentityProvider": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
          "traits": {
            "smithy.api#documentation": "<p>An object that specifies details for the Active
 Directory identity provider.</p>"
          }
        },
        "InstanceUserArn": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
          "traits": {
            "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the user to disassociate
from the EC2 instance.</p>"
          }
        },
        "Domain": {
          "target": "smithy.api#String",
          "traits": {
            "smithy.api#documentation": "<p>The domain name of the  Active Directory that contains
information for the user to disassociate.</p>"
          }
        }
      },
      "traits": {
        "smithy.api#input": {}
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
      "type": "structure",
      "members": {
```

"InstanceUserSummary":
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " Contains a list of subnets that apply for the Active Directory domain. ",
"smithy.api#length": {
"min": 1
},

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Contains network settings for the Active Directory domain. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},

"Value": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a describe\n\t\t\tor list operation. You can use filters can be used to match a set of resources by specific \n\t\t\tcriteria, such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>ActiveDirectoryIdentityProvider</code> resource contains settings \n\t\t\tand other details about a specific Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Refers to an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>IdentityProvider</code> resource contains information about \n\t\t\tan identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",

"traits": {
"smithy.api#documentation": " The <code>Settings</code> resource contains details about the registered \n\t\t\tidentity providers product related configuration settings, such as the \n\t\t\tsubnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the identity provider. ",
"smithy.api#required": {}
}
},
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider. "
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",

"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for an EC2 instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {

"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance that provides user-based subscriptions. ",
"smithy.api#required": {}
}
},

"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>IdentityProvider</code> resource specifies details \n\t\t\tabout the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a user associated with an EC2 instance. ",
"smithy.api#required": {}
}
},
"InstanceUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the instance user. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user information for the product subscription. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanagerusersubscriptions#IpV4": {
"type": "string",
"traits": {
"smithy.api#pattern": "^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
}
},

"com.amazonaws.licensemanagerusersubscriptions#IpV4List": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IpV4"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"

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        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#TagResource"
        },
        {
          "target": "com.amazonaws.licensemanagerusersubscriptions#UntagResource"
        },
        {

"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
        }
      ],
      "traits": {
        "aws.api#service": {
          "sdkId": "License Manager User Subscriptions",
          "arnNamespace": "license-manager-user-subscriptions",
          "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
        },
        "aws.auth#sigv4": {
          "name": "license-manager-user-subscriptions"
        },
        "aws.protocols#restJson1": {},
        "smithy.api#cors": {
          "additionalAllowedHeaders": [
            "*",
            "content-type",
            "x-amz-content-sha256",
            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id",
            "content-length",

       "x-api-key",
            "authorization",
            "x-amz-date",
            "x-amz-security-token",
            "Access-Control-Allow-Headers",
            "Access-Control-Allow-Methods",
            "Access-Control-Allow-Origin"
          ],
          "additionalExposedHeaders": [
            "x-amzn-errortype",
            "x-amzn-requestid",
            "x-amzn-trace-id"
          ]
```

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        },
        "smithy.api#documentation": "<p>With License Manager, you can create user-based subscriptions to
utilize licensed software with\n\t\ta per user subscription fee on Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager User Subscriptions",
        "smithy.rules#endpointRuleSet": {
          "version": "1.0",
          "parameters": {
            "Region":
 {
              "builtIn": "AWS::Region",
              "required": false,
              "documentation": "The AWS region used to dispatch the request.",
              "type": "String"
            },
            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
              "default": false,
              "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not
support dual-stack, dispatching the request MAY return an error.",
              "type": "Boolean"
            },
            "UseFIPS": {
              "builtIn": "AWS::UseFIPS",
              "required": true,
              "default": false,
              "documentation": "When true, send this request to the FIPS-compliant
 regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will
return an error.",
              "type": "Boolean"
            },
            "Endpoint": {
              "builtIn": "SDK::Endpoint",
              "required": false,
              "documentation": "Override the endpoint used to send this request",
              "type": "String"
            }
          },
          "rules": [
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Endpoint"
                    }
                  ]
```

```
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [
                    {

                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [],
                "endpoint": {
                    "url": {
                        "ref": "Endpoint"
                    },

"properties": {},
                    "headers": {}
                },
                "type": "endpoint"
            }
        ],
        "type": "tree"
```

```
            },
            {
              "conditions": [
                {
                  "fn": "isSet",
                  "argv": [
                    {
                      "ref": "Region"
                    }
                  ]
                }
              ],
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "aws.partition",

                     "argv": [
                          {
                            "ref": "Region"
                          }
                        ],
                      "assign": "PartitionResult"
                    }
                  ],
                  "rules": [
                    {
                      "conditions": [
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseFIPS"
                            },

true
                          ]
                        },
                        {
                          "fn": "booleanEquals",
                          "argv": [
                            {
                              "ref": "UseDualStack"
                            },
                            true
                          ]
                        }
```

```
                    ],
                    "rules": [
                      {
                        "conditions": [
                          {

  "fn": "booleanEquals",
                            "argv": [
                              true,
                              {
                                "fn": "getAttr",
                                "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
                                  "supportsFIPS"
                                ]
                              }
                            ]
                          },

                      {
                            "fn": "booleanEquals",
                            "argv": [
                              true,
                              {
                                "fn": "getAttr",
                                "argv": [
                                  {
                                    "ref": "PartitionResult"
                                  },
                                  "supportsDualStack"
                                ]
                              }

                  ]
                          }
                        ],
                        "rules": [
                          {
                            "conditions": [],
                            "endpoint": {
                              "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                              "properties": {},
                              "headers": {}
                            },
                            "type": "endpoint"
```

```
                    }

    ],
                "type": "tree"
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
                "type": "error"
            }
        ],
        "type": "tree"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [

 {
                    "ref": "UseFIPS"
                },
                true
            ]
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "fn": "getAttr",
                                "argv": [

{
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                            },
                            true
                        ]
                    }
                ],
                "rules": [
```

```
                    {
                        "conditions": [],
                        "endpoint": {

"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ],
                "type": "tree"
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"

}
            ],
            "type": "tree"
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "rules": [
                {

"conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
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"supportsDualStack"
]

}
]
}
],
"rules": [
{
"conditions": [],
"endpoint": {
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"properties": {},
"headers": {}
},
"type": "endpoint"
}

],
"type": "tree"
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
],
"type": "tree"
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",

"properties": {},
"headers": {}
},
"type": "endpoint"
}
],
"type": "tree"
}
],
"type": "tree"
},
{

"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}

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            },
            {
              "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
              "expect": {
                "endpoint":
{
                  "url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS":
true,
                "UseDualStack": true
              }
            },
            {
              "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
              "expect": {
                "endpoint": {
                  "url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
                }
              },
              "params": {
                "Region": "cn-north-1",
                "UseFIPS": true,
                "UseDualStack": false
              }
            },
            {
              "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
              "expect": {
                "endpoint":
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{
"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint":
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"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false

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            }
        },
        {
            "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
            "expect": {
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                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                 "UseDualStack": true
            }
        },
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            "expect": {
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                    "url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
                }
            },
            "params": {
                "Region": "us-gov-east-1",
                "UseFIPS": false,
                "UseDualStack": false
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
            "expect": {
                "error": "FIPS
and DualStack are enabled, but this partition does not support one or both"
            },
            "params": {
                "Region": "us-iso-east-1",
                "UseFIPS": true,
                "UseDualStack": true
            }
        },
        {
            "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
            "expect": {
                "endpoint": {
                    "url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
                }
            },
            "params": {
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"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false

}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}

},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack
disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"

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            }
        },
        "params": {
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            "UseFIPS": true,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
        "expect": {
            "error": "DualStack is enabled but this partition does not support DualStack"
        },
        "params": {
            "Region": "us-isob-east-1",

"UseFIPS": false,
            "UseDualStack": true
        }
    },
    {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
            "endpoint": {
                "url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
            }
        },
        "params": {
            "Region": "us-isob-east-1",
            "UseFIPS": false,
            "UseDualStack": false
        }
    },
    {
        "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
        "expect": {

      "endpoint": {
                "url": "https://example.com"
            }
        },
        "params": {
            "Region": "us-east-1",
            "UseFIPS": false,
            "UseDualStack": false,
            "Endpoint": "https://example.com"
        }
    },
```

```
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
              "params": {
                "UseFIPS": false,
                "UseDualStack":
false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration:
Dualstack and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": true,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "Missing region",
              "expect": {
                "error": "Invalid Configuration: Missing Region"
              }
            }
          ],
          "version": "1.0"
```

```
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#LicenseServer": {
          "type": "structure",
          "members": {
            "ProvisioningStatus": {
              "target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
              "traits": {
                "smithy.api#documentation": "<p>The current state of the provisioning process for the RDS
\n\t\t\tlicense server.</p>"
              }
            },
            "HealthStatus": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus",
              "traits": {
                "smithy.api#documentation": "<p>The health status of the RDS license server.</p>"
              }
            },
            "Ipv4Address": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>A list of domain IPv4 addresses that are used for the RDS
\n\t\t\tlicense server.</p>"
              }
            }
          },
          "traits": {
            "smithy.api#documentation": "<p>Information
 about a Remote Desktop Services (RDS) license server.</p>"
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint": {
          "type": "structure",
          "members": {
            "IdentityProviderArn": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the identity provider that's
associated with \n\t\t\tthe RDS license server endpoint.</p>"
              }
            },
            "ServerType": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
              "traits": {
                "smithy.api#documentation": "<p>The type of license server.</p>"
              }
```

```
            },
            "ServerEndpoint": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint",

    "traits": {
                    "smithy.api#documentation": "<p>The <code>ServerEndpoint</code> resource contains the network
\n\t\t\taddress of the RDS license server endpoint.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The message associated with the provisioning status, if there is
one.</p>"
                }
            },
            "LicenseServerEndpointId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the license server endpoint.</p>"
                }
            },
            "LicenseServerEndpointArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits":
 {
                    "smithy.api#documentation": "<p>The ARN of the <code>ServerEndpoint</code> resource for the
RDS \n\t\t\tlicense server.</p>"
                }
            },
            "LicenseServerEndpointProvisioningStatus": {
                "target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
                "traits": {
                    "smithy.api#documentation": "<p>The current state of the provisioning process for the RDS license
\n\t\t\tserver endpoint</p>"
                }
            },
            "LicenseServers": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of <code>LicenseServer</code> resources that represent
the \n\t\t\tlicense servers that are accessed through this endpoint.</p>"
                }
            },

           "CreationTime": {
                "target": "smithy.api#Timestamp",
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"traits": {
"smithy.api#documentation": " The timestamp when License Manager created the license server endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains details about a network endpoint for a Remote Desktop Services (RDS) \n\t\t\tlicense server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId": {
"type": "string"
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus": {

"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "PROVISIONING",
"value": "PROVISIONING",
"documentation": ""
},
{
"name": "PROVISIONING_FAILED",
"value": "PROVISIONING_FAILED",
"documentation": ""
},
{
"name": "PROVISIONED",
"value": "PROVISIONED",
"documentation": ""
},
{
"name": "DELETING",
"value": "DELETING",
"documentation": ""
},
{
"name": "DELETION_FAILED",
"value": "DELETION_FAILED",

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            "documentation": ""

        },
        {
            "name": "DELETED",
            "value": "DELETED",
            "documentation": ""
        }
    ]
  }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus": {
  "type": "string",
  "traits": {
    "smithy.api#enum": [
        {
            "name": "HEALTHY",
            "value": "HEALTHY",
            "documentation": ""
        },
        {
            "name": "UNHEALTHY",
            "value": "UNHEALTHY",
            "documentation": ""
        },
        {
            "name": "NOT_APPLICABLE",
            "value": "NOT_APPLICABLE",
            "documentation": ""
        }
    ]
  }
},
 "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList": {
  "type": "list",
  "member": {
    "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServer"
  }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings": {
  "type": "structure",
  "members": {
    "ServerType": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
        "traits": {
            "smithy.api#documentation": "<p>The type of license server.</p>",
            "smithy.api#required": {}
        }
```

```
            },
            "ServerSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerSettings",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>ServerSettings</code> resource contains the settings
for
 your \n\t\t\tserver.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The settings to configure your license server.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {

            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
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"smithy.api#documentation": " Lists the Active Directory identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n \n \n Product \n \n \n DirectoryId \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse": {
"type": "structure",
"members": {

"IdentityProviderSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",

"traits": {
"smithy.api#documentation": " An array of <code>IdentityProviderSummary</code> resources that contain \n\t\t\tdetails about the Active Directory identity providers that meet the request criteria. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members":
{
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single
request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n
\n \n Status \n \n
\n InstanceId \n \n "
}
}

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type": "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of <code>InstanceSummary</code> resources that
contain details \n\t\t\tabout the instances that provide user-based subscriptions and also meet the \n\t\t\trequest
criteria.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The next
 token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service
hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List the Remote Desktop Services (RDS) License Server endpoints
",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/ListLicenseServerEndpoints"
},

"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "LicenseServerEndpoints"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single
request. ",
"smithy.api#range": {
"min": 1,
"max": 100
}
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n
\n \n IdentityProviderArn \n \n "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse": {
"type": "structure",
"members": {
"LicenseServerEndpoints": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList",
"traits": {
"smithy.api#documentation": " An array of <code>LicenseServerEndpoint</code> resources that \n\t\t\tcontain detailed information about the RDS License Servers that meet \n\t\t\tthe request criteria. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",
"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n "
}
},
"IdentityProvider": {

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n
\n \n Status \n \n \n Username \n \n \n Domain \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service

hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Returns the list of tags for the specified resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource whose tags
you want to retrieve. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

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    }
      }
    },
    "traits": {
      "smithy.api#input": {}
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse": {
    "type": "structure",
    "members": {
      "Tags": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
        "traits": {
          "smithy.api#documentation": "<p>The tags for the specified resource.</p>"
        }
      }
    },
    "traits": {
      "smithy.api#output": {}
    }
  },
  "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
    "type": "operation",
    "input": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
    },
    "output": {
      "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
    },
    "errors": [
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
      },
      {
        "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
      },
```

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            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which
provides user-based subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
```

"smithy.api#documentation": " You can use the following filters to streamline results: \n \n \n Status \n \n \n Username \n \n \n Domain \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {

"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {
"Username":
{
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for this product

user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of a product for this user. ",
"smithy.api#required": {}
}
},
"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for this product user. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for this user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The domain name of the Active Directory that contains the user information for the product subscription. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " A summary of the user-based subscription products for a specific user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings": {
"type": "structure",
"members": {
"RdsSalCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " The <code>CredentialsProvider</code> resource contains a reference to \n\t\t\tthe credentials provider that's used for RDS license server user administration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Server settings that are specific to a Remote Desktop Services (RDS) license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider to
register. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n
Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits":
{
"smithy.api#documentation": " The registered identity providers product related configuration
\n\t\t\tsettings such as the subnets to provision VPC endpoints. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the identity provider's registration. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation":
" Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-
\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"

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            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
            "type": "structure",
            "members": {
                "message": {
                    "target": "smithy.api#String"
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The resource couldn't be found.</p>",

       "smithy.api#error": "client",
                "smithy.api#httpError": 404
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider": {
            "type": "structure",
            "members": {
                "SecretId": {
                    "target": "smithy.api#String",
                    "traits": {
                        "smithy.api#documentation": "<p>The ID of the Secrets Manager secret that contains
credentials.</p>",
                        "smithy.api#length": {
                            "min": 1
                        }
                    }
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>Contains a credentials secret that's stored in Secrets Manager.</p>"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
            "type": "string",
            "traits": {
                "smithy.api#length": {

             "min": 5,
                    "max": 200
                },
                "smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint": {
            "type": "structure",
            "members": {
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"Endpoint": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The network address of the endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " A network endpoint through which you can access one or more servers. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerSettings": {
"type": "union",
"members": {
"RdsSalSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings",
"traits": {
"smithy.api#documentation": " The <code>RdsSalSettings</code> resource contains settings to configure \n\t\t\ta specific Remote Desktop Services (RDS) license server. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains settings for a specific server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "RDS_SAL",
"value": "RDS_SAL",
"documentation": ""
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {

"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation": " The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",

"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoint for activation servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the\n\t\t\tsubnets to provision VPC endpoints, and the security group ID that is associated with the VPC\n\t\t\tendpoints. The security group should permit inbound TCP port 1688 communication from resources\n\t\t\tin the VPC. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"

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            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

           },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services Billing. For more information, see <a href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n\t\t\t\tmonthly charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }

    }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider of the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                    "smithy.api#required": {}
```

```
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {

  "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n        <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n
</p>",
                "smithy.api#required": {}
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the  Active Directory that contains the user
for whom to start the product \n\t\t\tsubscription.</p>"
            }
        },
        "Tags": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
            "traits": {
                "smithy.api#documentation": "<p>The tags that apply to the product subscription.</p>"
            }

  }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
```

"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"

},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"

},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. "
}
},
"IdentityProvider": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. "
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n
Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> |
\n<code>REMOTE_DESKTOP_SERVICES</code>\n "
}
},
"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the product user. "

}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user
for whom to stop the product \n\t\t\tsubscription. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription
operation. ",
"smithy.api#required": {}

}

}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "^subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagKeyList": {
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {

"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation":
" Adds tags to a resource. ",
"smithy.api#http": {
"method": "PUT",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource that you want to tag. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation":
" The tags to apply to the specified resource. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse": {
"type": "structure",

"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#Tags": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException":
{
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the
request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Removes tags from a resource. ",
"smithy.api#http": {
"method": "DELETE",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource that you want to remove tags from. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

}
},
"TagKeys": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagKeyList",
"traits": {
"smithy.api#documentation": " The tag keys to remove from the resource. ",
"smithy.api#httpQuery": "tagKeys",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",

"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n\t\t\tprovider. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider"
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | \n<code>REMOTE_DESKTOP_SERVICES</code>\n "
}
},

"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider to update. "
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings. You can\n\t\t\tupdate any combination of settings in a single operation such as the: \n \n \n Subnets which you want to add to provision VPC endpoints. \n \n \n Subnets which you want to remove the VPC endpoints from. \n \n \n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint for products that\n\t\t\trequire connectivity to activation servers. ",
"smithy.api#required": {}

```
                }
            },
            "RemoveSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets to remove.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that
 allows inbound TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoints for
activation servers.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Updates the registered identity providers product related configuration
settings such as\n\t\t\tthe subnets to provision VPC endpoints.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A parameter is not valid.</p>",
            "smithy.api#error": "client"
        }
    }
  }
}
```


ListReceivedLicenses

Initialize stack step

spanInitializeStart

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

spanInitializeEnd

Serialize stack step

spanBuildRequestStart

setOperationInput

ResolveEndpoint

OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata
```

```
 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if
 err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
```

```
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if
err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
```

```
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
CheckoutLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
```

ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

1.5156 prometheus-operator 0.84.0

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//! github.com/moment/moment-timezone

//! license : MIT

//! moment-timezone.js

//! moment.js

//! version : 0.5.34
// Copyright (c) The Thanos Authors.
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package main

import (
 "bytes"
 "log"
 "os"
 "path/filepath"
 "strings"
)

type copyright []byte

var (
 // thanos compatible for Go and Proto files.
 thanos copyright = []byte(`// Copyright (c) The Thanos Authors.
// Licensed under the Apache License 2.0.

`)
 cortex copyright = []byte(`// Copyright (c) The Cortex Authors.
// Licensed under the Apache License 2.0.

`)
)

func applyLicenseToProtoAndGo() error {
 return filepath.Walk(".", func(path string, info os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  // Filter out stuff that does not need copyright.
  if info.IsDir() {
   switch path {
```

```
  case "vendor":
   return filepath.SkipDir
  }
  return nil
 }
 if strings.HasSuffix(path, ".pb.go") {
  return nil
 }
 if (filepath.Ext(path) != ".proto" && filepath.Ext(path) != ".go") ||
  // We copied this file, and we want to maintain its license (MIT).
  path == "pkg/testutil/testutil.go"
||
  // Generated file.
  path == "pkg/ui/bindata.go" {
  return nil
 }

 b, err := os.ReadFile(filepath.Clean(path))
 if err != nil {
  return err
 }

 var cr copyright
 if strings.HasPrefix(path, "internal/cortex") {
  // We vendored in Cortex files, and we want to maintain its license
  cr = cortex
 } else {
  cr = thanos
 }
 if err := writeLicence(cr, path, b); err != nil {
  return err
 }
 return nil
})
}

func writeLicence(cr copyright, path string, b []byte) error {
 if !strings.HasPrefix(string(b), string(cr)) {
  log.Println("file", path, "is missing Copyright header. Adding.")

  var bb bytes.Buffer
  _, _ = bb.Write(cr)
  _, _ = bb.Write(b)
  if err := os.WriteFile(path, bb.Bytes(), 0600); err != nil {
   return err
  }
 }
 return nil
```

```
}

func main() {
 if err := applyLicenseToProtoAndGo(); err != nil {
  log.Fatal(err)
 }
}
```

1.5159 go-grpc 0.1.1

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1.5160 github.com/grafana/dskit 0.0.0-20250317084829-9cdd36a91f10

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1.5161 github.com/grafana/gomemcache 0.0.0-20250228145437-da7b95fd2ac1

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go 1.20

require github.com/efficientgo/tools/copyright v0.0.0-20220225185207-fe763185946b
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1.5163 github.com/grafana/objstore 0.0.0-20250210100727-533688b5600d

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1.5164 gomemcache 0.0.0-20250228145437-da7b95fd2ac1

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1.5165 github.com/ibm/ibm-cos-sdk-go 1.12.2

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1.5166 github.com/baidubce/bce-sdk-go 0.9.222

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*/

package minio

import (
 "bytes"
 "context"
 "encoding/xml"
 "fmt"
 "net/http"
 "net/url"

 "github.com/minio/minio-go/v7/pkg/s3utils"
)

// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
 XMLNS   string          `xml:"xmlns,attr,omitempty"`
 XMLName
 xml.Name        `xml:"LegalHold"`
 Status  LegalHoldStatus `xml:"Status,omitempty"`
}

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
 VersionID string
 Status    *LegalHoldStatus
```

```
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
 VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const (
 // LegalHoldEnabled indicates legal hold is enabled
 LegalHoldEnabled LegalHoldStatus = "ON"

 // LegalHoldDisabled indicates legal hold is disabled
 LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
 return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
 return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus)
 (*objectLegalHold, error) {
 if status == nil {
  return nil, fmt.Errorf("Status not set")
 }
 if !status.IsValid() {
  return nil, fmt.Errorf("invalid legal hold status `%v`", status)
 }
 legalHold := &objectLegalHold{
  Status: *status,
 }
 return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c *Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
PutObjectLegalHoldOptions) error {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return err
 }
```

```
if err := s3utils.CheckValidObjectName(objectName); err != nil {
 return err
}

// Get resources properly escaped and lined up before
// using them in http request.
urlValues := make(url.Values)
urlValues.Set("legal-hold", "")

if opts.VersionID != "" {
 urlValues.Set("versionId", opts.VersionID)
}

lh, err := newObjectLegalHold(opts.Status)
if err != nil {
 return err
}

lhData, err := xml.Marshal(lh)
if
err != nil {
 return err
}

reqMetadata := requestMetadata{
 bucketName:       bucketName,
 objectName:       objectName,
 queryValues:      urlValues,
 contentBody:      bytes.NewReader(lhData),
 contentLength:    int64(len(lhData)),
 contentMD5Base64: sumMD5Base64(lhData),
 contentSHA256Hex: sum256Hex(lhData),
}

// Execute PUT Object Legal Hold.
resp, err := c.executeMethod(ctx, http.MethodPut, reqMetadata)
defer closeResponse(resp)
if err != nil {
 return err
}
if resp != nil {
 if resp.StatusCode != http.StatusOK && resp.StatusCode != http.StatusNoContent {
  return httpRespToErrorResponse(resp, bucketName, objectName)
 }
}
return nil
}
```

```
// GetObjectLegalHold gets legal-hold status of given object.
func (c *Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
 // Input validation.
 if err := s3utils.CheckValidBucketName(bucketName); err != nil {
  return
 nil, err
 }

 if err := s3utils.CheckValidObjectName(objectName); err != nil {
  return nil, err
 }
 urlValues := make(url.Values)
 urlValues.Set("legal-hold", "")

 if opts.VersionID != "" {
  urlValues.Set("versionId", opts.VersionID)
 }

 // Execute GET on bucket to list objects.
 resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
  bucketName:       bucketName,
  objectName:       objectName,
  queryValues:      urlValues,
  contentSHA256Hex: emptySHA256Hex,
 })
 defer closeResponse(resp)
 if err != nil {
  return nil, err
 }
 if resp != nil {
  if resp.StatusCode != http.StatusOK {
   return nil, httpRespToErrorResponse(resp, bucketName, objectName)
  }
 }
 lh := &objectLegalHold{}
 if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
  return nil, err
 }

 return &lh.Status, nil
}
```

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//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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```
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package api

import (
 "io"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`

 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`
```

```
 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
```

```
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
```

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
```

```
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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1.5171 github.com/twmb/franz-go/pkg/kadm 1.15.0

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1.5172 zombiezen.com/go/sqlite 1.4.0

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```
{
 "Copyright": {
  "prefix": "copyright",
  "body": [
   "$LINE_COMMENT Copyright $CURRENT_YEAR Roxy Light",
   "$LINE_COMMENT SPDX-License-Identifier: ISC",
  ],
  "description": "Copyright header"
 }
}
```

1.5173 github.com/twmb/franz-go/plugin/kotel 1.5.0

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1.5174 github.com/grafana/jsonparser 0.0.0-20241004153430-023329977675

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1.5175 github.com/twmb/franz-go 1.18.1

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1.5176 github.com/parquet-go/parquet-go 0.25.0

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1.5177 googlecloudgo 0.119.0

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//go:build go1.23

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleLicensesClient_List_all() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications
 to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 for resp, err := range c.List(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
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package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 "google.golang.org/api/iterator"
```

```
)

func ExampleNewLicenseManagementClient() {
 ctx
 := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleNewLicenseManagementRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c,
 err := procurement.NewLicenseManagementRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseManagementClient_Assign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 defer c.Close()

 req := &procurementpb.AssignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#AssignRequest.
 }
 resp, err := c.Assign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_EnumerateLicensedUsers() {
 ctx := context.Background()
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 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 it := c.EnumerateLicensedUsers(ctx, req)
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  //
 TODO: Use resp.
  _ = resp
```

```
  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*procurementpb.EnumerateLicensedUsersResponse)
 }
}

func ExampleLicenseManagementClient_GetLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.GetLicensePoolRequest{
  // TODO: Fill request struct fields.
  //
 See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#GetLicensePoolRe
quest.
 }
 resp, err := c.GetLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_Unassign() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
```

```
 defer c.Close()

 req := &procurementpb.UnassignRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UnassignRequest.
 }
 resp,
 err := c.Unassign(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_UpdateLicensePool() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.UpdateLicensePoolRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#UpdateLicensePoo
lRequest.
 }
 resp, err := c.UpdateLicensePool(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 //
 TODO: Use resp.
 _ = resp
}

func ExampleLicenseManagementClient_GetOperation() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &longrunningpb.GetOperationRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/longrunning/autogen/longrunningpb#GetOperationRequest.
 }
 resp, err := c.GetOperation(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
  //
 TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#DeleteLicenseRequest.
 }
 op, err := c.Delete(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseRequest.
}
resp,
err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
//   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
```

```
func ExampleLicensesClient_Insert()
 {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#InsertLicenseRequest.
 }
 op, err := c.Insert(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }

 err = op.Wait(ctx)
 if err != nil {
  // TODO: Handle error.
 }
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
```

```
 for {
  resp, err := it.Next()
  if err == iterator.Done {
   break
  }
  if err != nil {
   // TODO: Handle error.
  }
  // TODO: Use resp.
  _ = resp

  // If you need to access the underlying RPC response,
  // you can do so by casting the `Response` as below.
  // Otherwise, remove this line. Only populated after
  // first call to Next(). Not safe for concurrent access.
  _ = it.Response.(*computepb.LicensesListResponse)
 }
}

func
 ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.SetIamPolicyLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
 }
 resp, err := c.SetIamPolicy(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically
```

```
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
```

```
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var
 newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete             []gax.CallOption
 Get                []gax.CallOption
 GetIamPolicy       []gax.CallOption
 Insert             []gax.CallOption
 List               []gax.CallOption
 SetIamPolicy       []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
 return &LicensesCallOptions{
  Delete: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  GetIamPolicy:
 []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
```

```
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 Insert: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 List: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
  gax.WithRetry(func() gax.Retryer {
   return gax.OnHTTPCodes(gax.Backoff{
    Initial:    100 * time.Millisecond,
    Max:        60000 * time.Millisecond,
    Multiplier: 1.30,
   },
    http.StatusGatewayTimeout,
    http.StatusServiceUnavailable)
  }),
 },
 SetIamPolicy: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
 TestIamPermissions: []gax.CallOption{
  gax.WithTimeout(600000 * time.Millisecond),
 },
}
}

//
 internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
 Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
 GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
 List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
 SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse,
 error)
}
```

```
// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection
 to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
```

```
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty
 if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses,
 use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners
 who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
```

```
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

 logger *slog.Logger
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx
 context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
  option.WithHTTPClient(httpClient),
  option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
  return nil, err
 }
 c.operationClient = opC
```

```
 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient
 with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
  return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
creating Cloud Marketplace images.
```

```
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client
 and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Delete")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf,
 resp); err != nil {
   return err
  }

  return nil
```

```
 }, opts...)
 if e != nil {
  return nil, e
 }
 op := &Operation{
  &globalOperationsHandle{
   c:       c.operationClient,
   proto:   resp,
   project: req.GetProject(),
  },
 }
 return op, nil
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense()))}

 hds = append(c.xGoogHeaders,
 hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
```

```
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
 exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
  params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds,
 "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
```

```
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetIamPolicy")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended
 for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
  params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }
```

```
baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "project", url.QueryEscape(req.GetProject()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers := gax.BuildHeaders(ctx,
hds...)
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Insert")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
  c:       c.operationClient,
  proto:   resp,
  project: req.GetProject(),
 },
}
return op, nil
}
```

```
// List retrieves the
 list of licenses available in the specified project. This method does not get any licenses that belong to other projects,
including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available
licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
  resp := &computepb.LicensesListResponse{}
  if pageToken != "" {
   req.PageToken = proto.String(pageToken)
  }
  if pageSize > math.MaxInt32
  {
   req.MaxResults = proto.Uint32(uint32(math.MaxInt32))
  } else if pageSize != 0 {
   req.MaxResults = proto.Uint32(uint32(pageSize))
  }
  baseUrl, err := url.Parse(c.endpoint)
  if err != nil {
   return nil, "", err
  }
  baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

  params := url.Values{}
  if req != nil && req.Filter != nil {
   params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
  }
  if req != nil && req.MaxResults != nil {
   params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
  }
  if req != nil && req.OrderBy != nil {
   params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
  }
  if req != nil && req.PageToken != nil {
   params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
  }
  if req != nil && req.ReturnPartialSuccess != nil {
   params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
  }

  baseUrl.RawQuery = params.Encode()

  // Build HTTP headers from
```

```
client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "List")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken,
nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
```

```
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds
 := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()),
"resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "SetIamPolicy")
  if err != nil {
   return err
  }

  if
```

```
 err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params",
 fmt.Sprintf("%s=%v&%s=%v", "project", url.QueryEscape(req.GetProject()), "resource",
url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
```

```
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err !=
 nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
// Copyright 2025 Google LLC
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//     https://www.apache.org/licenses/LICENSE-2.0
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

//go:build go1.23

package compute_test
// Copyright 2025 Google LLC
//
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// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
```

```
//
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// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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// limitations under the License.

// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1beta/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)
```

```
// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32
```

```
const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string {
 return
 protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
```

```
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service accounts,
 you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1beta.Pe
rmission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
```

```
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1beta.Permission_Role,oneof"
json:"role,omitempty"`
}

func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}
```

```
func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1beta_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = []byte{
 0x0a, 0x34, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x23, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x1a, 0x1f, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65,
 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f,
 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69,
 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63,
 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x85, 0x05, 0x0a, 0x0a, 0x50, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65, 0x18, 0x01,
 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04, 0x6e, 0x61,
 0x6d, 0x65, 0x12, 0x6b, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79,
 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3b, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c,
 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x00, 0x52,
 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12,
 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73,
 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05, 0x48, 0x01,
 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x88, 0x01,
 0x01, 0x12, 0x52, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01, 0x28, 0x0e, 0x32,
 0x34, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76,
 0x31, 0x62, 0x65, 0x74, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02, 0x52, 0x04, 0x72, 0x6f,
```

```
 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65,
 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41, 0x4e, 0x54, 0x45, 0x45, 0x5f,
 0x54,
 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45, 0x44,
 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01, 0x12, 0x09, 0x0a, 0x05,
 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45, 0x56, 0x45, 0x52, 0x59,
 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c, 0x65, 0x12, 0x14, 0x0a,
 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49, 0x46, 0x49, 0x45,
 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52, 0x10, 0x01, 0x12, 0x0a,
 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a, 0x0a, 0x06, 0x52, 0x45,
 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6, 0x01, 0x0a, 0x2c, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69,
 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x32, 0x74, 0x75, 0x6e,
 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x5f,
 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x12,
 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f, 0x72, 0x70, 0x75, 0x73,
 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70,
 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b, 0x70, 0x65, 0x72, 0x6d,
 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73,
 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61,
 0x64, 0x64, 0x72, 0x65, 0x73, 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f,
 0x72, 0x6f, 0x6c, 0x65, 0x42,
 0x9b, 0x01, 0x0a, 0x27, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61,
 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67,
 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x62, 0x65, 0x74, 0x61, 0x42, 0x0f, 0x50, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x50, 0x01, 0x5a, 0x5d,
 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x76, 0x31, 0x62,
 0x65, 0x74, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61,
 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74,
 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x62, 0x06, 0x70,
 0x72,
 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1beta_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDescOnce.Do(func() {
```

```
  file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1beta_permission_proto_rawDescData
}

var file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1beta_permission_proto_goTypes = []any{
 (Permission_GranteeType)(0),
 // 0: google.ai.generativelanguage.v1beta.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1beta.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1beta.Permission
}
var file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1beta.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1beta.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1beta.Permission.role:type_name ->
google.ai.generativelanguage.v1beta.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1beta_permission_proto_init() }
func file_google_ai_generativelanguage_v1beta_permission_proto_init()
 {
 if File_google_ai_generativelanguage_v1beta_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1beta_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1beta_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1beta_permission_proto_msgTypes,
 }.Build()
```

```
 File_google_ai_generativelanguage_v1beta_permission_proto = out.File
 file_google_ai_generativelanguage_v1beta_permission_proto_rawDesc = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_goTypes
 = nil
 file_google_ai_generativelanguage_v1beta_permission_proto_depIdxs = nil
}
// Copyright 2025 Google LLC
//
// Licensed under the Apache License, Version 2.0 (the "License");
// you may not use this file except in compliance with the License.
// You may obtain a copy of the License at
//
//     https://www.apache.org/licenses/LICENSE-2.0
//
// Unless required by applicable law or agreed to in writing, software
// distributed under the License is distributed on an "AS IS" BASIS,
// WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
// See the License for the specific language governing permissions and
// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}
```

```
func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
  // TODO: Fill request
 struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
  // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
  // TODO: Fill request struct fields.
  // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
  // TODO: Handle error.
```

```
 }
 // TODO: Use resp.
 _ = resp
}
// Copyright 2025 Google LLC
//
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package procurement

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "math"
 "net/http"
 "net/url"

 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
 longrunningpb "cloud.google.com/go/longrunning/autogen/longrunningpb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 gtransport
 "google.golang.org/api/transport/grpc"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)

var newLicenseManagementClientHook clientHook

// LicenseManagementCallOptions contains the retry settings for each method of LicenseManagementClient.
```

```
type LicenseManagementCallOptions struct {
 GetLicensePool         []gax.CallOption
 UpdateLicensePool      []gax.CallOption
 Assign                 []gax.CallOption
 Unassign               []gax.CallOption
 EnumerateLicensedUsers []gax.CallOption
 GetOperation           []gax.CallOption
}

func defaultLicenseManagementGRPCClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("cloudcommerceconsumerprocurement.googleapis.com:443"),
internaloption.WithDefaultEndpointTemplate("cloudcommerceconsumerprocurement.UNIVERSE_DOMAIN:443")
,
  internaloption.WithDefaultMTLSEndpoint("cloudcommerceconsumerprocurement.mtls.googleapis.com:443"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableJwtWithScope(),
  internaloption.EnableNewAuthLibrary(),
  option.WithGRPCDialOption(grpc.WithDefaultCallOptions(
   grpc.MaxCallRecvMsgSize(math.MaxInt32))),
 }
}

func
 defaultLicenseManagementCallOptions() *LicenseManagementCallOptions {
 return &LicenseManagementCallOptions{
  GetLicensePool:         []gax.CallOption{},
  UpdateLicensePool:      []gax.CallOption{},
  Assign:                 []gax.CallOption{},
  Unassign:               []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:           []gax.CallOption{},
 }
}

func defaultLicenseManagementRESTCallOptions() *LicenseManagementCallOptions {
 return
 &LicenseManagementCallOptions{
  GetLicensePool:         []gax.CallOption{},
  UpdateLicensePool:      []gax.CallOption{},
  Assign:                 []gax.CallOption{},
  Unassign:               []gax.CallOption{},
  EnumerateLicensedUsers: []gax.CallOption{},
  GetOperation:           []gax.CallOption{},
 }
}
```

```
// internalLicenseManagementClient is an interface that defines the methods available from Cloud Commerce
Consumer Procurement API.
type internalLicenseManagementClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 GetLicensePool(context.Context, *procurementpb.GetLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 UpdateLicensePool(context.Context, *procurementpb.UpdateLicensePoolRequest, ...gax.CallOption)
(*procurementpb.LicensePool, error)
 Assign(context.Context, *procurementpb.AssignRequest, ...gax.CallOption) (*procurementpb.AssignResponse,
error)
 Unassign(context.Context, *procurementpb.UnassignRequest,
 ...gax.CallOption) (*procurementpb.UnassignResponse, error)
 EnumerateLicensedUsers(context.Context, *procurementpb.EnumerateLicensedUsersRequest, ...gax.CallOption)
*LicensedUserIterator
 GetOperation(context.Context, *longrunningpb.GetOperationRequest, ...gax.CallOption)
(*longrunningpb.Operation, error)
}

// LicenseManagementClient is a client for interacting with Cloud Commerce Consumer Procurement API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// Service for managing licenses.
type LicenseManagementClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseManagementClient

 // The call options for this service.
 CallOptions *LicenseManagementCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseManagementClient)
 Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseManagementClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
```

```
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseManagementClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// GetLicensePool gets the license pool.
func (c *LicenseManagementClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 return c.internalClient.GetLicensePool(ctx, req, opts...)
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *LicenseManagementClient)
 UpdateLicensePool(ctx context.Context, req *procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption)
(*procurementpb.LicensePool, error) {
 return c.internalClient.UpdateLicensePool(ctx, req, opts...)
}

// Assign assigns a license to a user.
func (c *LicenseManagementClient) Assign(ctx context.Context, req *procurementpb.AssignRequest, opts
...gax.CallOption) (*procurementpb.AssignResponse, error) {
 return c.internalClient.Assign(ctx, req, opts...)
}

// Unassign unassigns a license from a user.
func (c *LicenseManagementClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest, opts
...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 return c.internalClient.Unassign(ctx, req, opts...)
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *LicenseManagementClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 return c.internalClient.EnumerateLicensedUsers(ctx,
 req, opts...)
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c *LicenseManagementClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 return c.internalClient.GetOperation(ctx, req, opts...)
}
```

```
// licenseManagementGRPCClient is a client for interacting with Cloud Commerce Consumer Procurement API
over gRPC transport.
//
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementGRPCClient struct {
 // Connection pool of gRPC connections to the service.
 connPool gtransport.ConnPool

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 // The gRPC API client.
 licenseManagementClient procurementpb.LicenseManagementServiceClient

 operationsClient longrunningpb.OperationsClient

 //
 The x-goog-* metadata to be sent with each request.
 xGoogHeaders []string

 logger *slog.Logger
}

// NewLicenseManagementClient creates a new license management service client based on gRPC.
// The returned client must be Closed when it is done being used to clean up its underlying connections.
//
// Service for managing licenses.
func NewLicenseManagementClient(ctx context.Context, opts ...option.ClientOption) (*LicenseManagementClient,
error) {
 clientOpts := defaultLicenseManagementGRPCClientOptions()
 if newLicenseManagementClientHook != nil {
  hookOpts, err := newLicenseManagementClientHook(ctx, clientHookParams{})
  if err != nil {
   return nil, err
  }
  clientOpts = append(clientOpts, hookOpts...)
 }

 connPool, err := gtransport.DialPool(ctx, append(clientOpts, opts...)...)
 if err != nil {
  return nil, err
 }
 client := LicenseManagementClient{CallOptions: defaultLicenseManagementCallOptions()}

 c := &licenseManagementGRPCClient{
  connPool:
```

```
    connPool,
 licenseManagementClient: procurementpb.NewLicenseManagementServiceClient(connPool),
 CallOptions:            &client.CallOptions,
 logger:                 internaloption.GetLogger(opts),
 operationsClient:       longrunningpb.NewOperationsClient(connPool),
}
c.setGoogleClientInfo()

client.internalClient = c

return &client, nil
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *licenseManagementGRPCClient) Connection() *grpc.ClientConn {
 return c.connPool.Conn()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseManagementGRPCClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "grpc",
 grpc.Version)
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementGRPCClient) Close() error {
 return c.connPool.Close()
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseManagementRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client
```

```
 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseManagementClient
 CallOptions **LicenseManagementCallOptions

 logger *slog.Logger
}

// NewLicenseManagementRESTClient creates a new license management service rest client.
//
// Service for managing licenses.
func NewLicenseManagementRESTClient(ctx context.Context, opts ...option.ClientOption)
 (*LicenseManagementClient, error) {
 clientOpts := append(defaultLicenseManagementRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseManagementRESTCallOptions()
 c := &licenseManagementRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()

 return &LicenseManagementClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseManagementRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://cloudcommerceconsumerprocurement.googleapis.com"),
internaloption.WithDefaultEndpointTemplate("https://cloudcommerceconsumerprocurement.UNIVERSE_DOMAI
N"),
  internaloption.WithDefaultMTLSEndpoint("https://cloudcommerceconsumerprocurement.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://cloudcommerceconsumerprocurement.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
```

```
// use by Google-written clients.
func (c *licenseManagementRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseManagementRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseManagementRESTClient) Connection() *grpc.ClientConn {
 return nil
}
func (c *licenseManagementGRPCClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.GetLicensePool, req, settings.GRPC, c.logger,
"GetLicensePool")
  return err
 }, opts...)
 if err != nil {
  return
 nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) UpdateLicensePool(ctx context.Context, req
```

```
*procurementpb.UpdateLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
 var resp *procurementpb.LicensePool
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.UpdateLicensePool, req, settings.GRPC, c.logger,
"UpdateLicensePool")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Assign(ctx context.Context,
 req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 var resp *procurementpb.AssignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Assign, req, settings.GRPC, c.logger, "Assign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds
 = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
```

```
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 var resp *procurementpb.UnassignResponse
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  var err error
  resp, err = executeRPC(ctx, c.licenseManagementClient.Unassign, req, settings.GRPC, c.logger, "Unassign")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

func (c *licenseManagementGRPCClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).EnumerateLicensedUsers[0:len((*c.CallOptions).EnumerateLicensedUsers):len((*c.CallOp
tions).EnumerateLicensedUsers)],
 opts...)
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
  resp := &procurementpb.EnumerateLicensedUsersResponse{}
  if pageToken != "" {
   req.PageToken = pageToken
  }
  if pageSize > math.MaxInt32 {
   req.PageSize = math.MaxInt32
  } else if pageSize != 0 {
   req.PageSize = int32(pageSize)
  }
  err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   var err error
   resp, err = executeRPC(ctx, c.licenseManagementClient.EnumerateLicensedUsers, req, settings.GRPC, c.logger,
"EnumerateLicensedUsers")
   return err
  }, opts...)
  if err != nil {
   return nil, "", err
  }

  it.Response = resp
  return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
 }
```

```
 fetch := func(pageSize int,
 pageToken string) (string, error) {
  items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
  if err != nil {
   return "", err
  }
  it.items = append(it.items, items...)
  return nextPageToken, nil
 }

 it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
 it.pageInfo.MaxSize = int(req.GetPageSize())
 it.pageInfo.Token = req.GetPageToken()

 return it
}

func (c *licenseManagementGRPCClient) GetOperation(ctx context.Context, req
*longrunningpb.GetOperationRequest, opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 ctx = gax.InsertMetadataIntoOutgoingContext(ctx, hds...)
 opts =
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 var resp *longrunningpb.Operation
 err := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  var err error
  resp, err = executeRPC(ctx, c.operationsClient.GetOperation, req, settings.GRPC, c.logger, "GetOperation")
  return err
 }, opts...)
 if err != nil {
  return nil, err
 }
 return resp, nil
}

// GetLicensePool gets the license pool.
func (c *licenseManagementRESTClient) GetLicensePool(ctx context.Context, req
*procurementpb.GetLicensePoolRequest, opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())
```

```
 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).GetLicensePool[0:len((*c.CallOptions).GetLicensePool):len((*c.CallOptions).GetLicenseP
ool)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.LicensePool{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetLicensePool")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// UpdateLicensePool updates the license pool if one exists for this Order.
func (c *licenseManagementRESTClient) UpdateLicensePool(ctx context.Context, req
*procurementpb.UpdateLicensePoolRequest,
```

```
opts ...gax.CallOption) (*procurementpb.LicensePool, error) {
m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
body := req.GetLicensePool()
jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetLicensePool().GetName())

params := url.Values{}
params.Add("$alt", "json;enum-encoding=int")
if req.GetUpdateMask() != nil {
 field, err := protojson.Marshal(req.GetUpdateMask())
 if err != nil {
  return nil, err
 }
 params.Add("updateMask", string(field[1:len(field)-1]))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "license_pool.name",
url.QueryEscape(req.GetLicensePool().GetName()))}

hds = append(c.xGoogHeaders, hds...)
hds = append(hds, "Content-Type", "application/json")
headers
:= gax.BuildHeaders(ctx, hds...)
opts =
append((*c.CallOptions).UpdateLicensePool[0:len((*c.CallOptions).UpdateLicensePool):len((*c.CallOptions).Upda
teLicensePool)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &procurementpb.LicensePool{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
  baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("PATCH", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
  return err
 }
 httpReq = httpReq.WithContext(ctx)
```

```
 httpReq.Header = headers

 buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "UpdateLicensePool")
 if err != nil {
  return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// Assign assigns a license to a user.
func (c *licenseManagementRESTClient) Assign(ctx
 context.Context, req *procurementpb.AssignRequest, opts ...gax.CallOption) (*procurementpb.AssignResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:assign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Assign[0:len((*c.CallOptions).Assign):len((*c.CallOptions).Assign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
```

```
 resp
 := &procurementpb.AssignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Assign")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// Unassign unassigns a license from a user.
func (c *licenseManagementRESTClient) Unassign(ctx context.Context, req *procurementpb.UnassignRequest,
opts ...gax.CallOption) (*procurementpb.UnassignResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true, UseEnumNumbers: true}
 jsonReq, err := m.Marshal(req)
 if err != nil {
  return
 nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:unassign", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
```

```
 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "parent", url.QueryEscape(req.GetParent()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Unassign[0:len((*c.CallOptions).Unassign):len((*c.CallOptions).Unassign)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &procurementpb.UnassignResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(),
 bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "Unassign")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// EnumerateLicensedUsers enumerates all users assigned a license.
func (c *licenseManagementRESTClient) EnumerateLicensedUsers(ctx context.Context, req
*procurementpb.EnumerateLicensedUsersRequest, opts ...gax.CallOption) *LicensedUserIterator {
 it := &LicensedUserIterator{}
 req = proto.Clone(req).(*procurementpb.EnumerateLicensedUsersRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*procurementpb.LicensedUser, string, error) {
```

```
 resp := &procurementpb.EnumerateLicensedUsersResponse{}
 if
pageToken != "" {
  req.PageToken = pageToken
 }
 if pageSize > math.MaxInt32 {
  req.PageSize = math.MaxInt32
 } else if pageSize != 0 {
  req.PageSize = int32(pageSize)
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v:enumerateLicensedUsers", req.GetParent())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")
 if req.GetPageSize() != 0 {
  params.Add("pageSize", fmt.Sprintf("%v", req.GetPageSize()))
 }
 if req.GetPageToken() != "" {
  params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := append(c.xGoogHeaders, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq,
err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "EnumerateLicensedUsers")
  if err != nil {
   return err
  }
  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }
```

```
  return nil
 }, opts...)
 if e != nil {
  return nil, "", e
 }
 it.Response = resp
 return resp.GetLicensedUsers(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
  return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetPageSize())
it.pageInfo.Token = req.GetPageToken()

return it
}

// GetOperation is a utility method from google.longrunning.Operations.
func (c
 *licenseManagementRESTClient) GetOperation(ctx context.Context, req *longrunningpb.GetOperationRequest,
opts ...gax.CallOption) (*longrunningpb.Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/v1/%v", req.GetName())

 params := url.Values{}
 params.Add("$alt", "json;enum-encoding=int")

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v", "name", url.QueryEscape(req.GetName()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
```

```
append((*c.CallOptions).GetOperation[0:len((*c.CallOptions).GetOperation):len((*c.CallOptions).GetOperation)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &longrunningpb.Operation{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
 error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "GetOperation")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
//go:build go1.23

package procurement_test

import (
 "context"

 procurement "cloud.google.com/go/commerce/consumer/procurement/apiv1"
 procurementpb "cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb"
)

func ExampleLicenseManagementClient_EnumerateLicensedUsers_all() {
 ctx := context.Background()
 // This snippet has been automatically
 generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 //   https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := procurement.NewLicenseManagementClient(ctx)
 if err != nil {
  // TODO: Handle error.
 }
 defer c.Close()

 req := &procurementpb.EnumerateLicensedUsersRequest{
  // TODO: Fill request struct fields.
  // See
https://pkg.go.dev/cloud.google.com/go/commerce/consumer/procurement/apiv1/procurementpb#EnumerateLicense
dUsersRequest.
 }
 for resp, err := range c.EnumerateLicensedUsers(ctx, req).All() {
  if err != nil {
   // TODO: Handle error and break/return/continue. Iteration will stop after any error.
  }
  // TODO: Use resp.
  _ = resp
 }
}
// Copyright 2025 Google LLC
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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/ai/generativelanguage/v1alpha/permission.proto

package generativelanguagepb

import (
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
)

const
 (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Defines types of the grantee of this permission.
type Permission_GranteeType int32

const (
 // The default value. This value is unused.
 Permission_GRANTEE_TYPE_UNSPECIFIED Permission_GranteeType = 0
 // Represents a user. When set, you must provide email_address for the user.
 Permission_USER Permission_GranteeType = 1
 // Represents a group. When set, you must provide email_address for the
 // group.
 Permission_GROUP Permission_GranteeType = 2
 // Represents access to everyone. No extra information is required.
 Permission_EVERYONE Permission_GranteeType = 3
)

// Enum value maps for Permission_GranteeType.
var (
 Permission_GranteeType_name = map[int32]string{
```

```
  0: "GRANTEE_TYPE_UNSPECIFIED",
  1: "USER",
  2:
 "GROUP",
  3: "EVERYONE",
 }
 Permission_GranteeType_value = map[string]int32{
  "GRANTEE_TYPE_UNSPECIFIED": 0,
  "USER":                     1,
  "GROUP":                    2,
  "EVERYONE":                 3,
 }
)

func (x Permission_GranteeType) Enum() *Permission_GranteeType {
 p := new(Permission_GranteeType)
 *p = x
 return p
}

func (x Permission_GranteeType) String() string {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_GranteeType) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0].Descriptor()
}

func (Permission_GranteeType) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[0]
}

func (x Permission_GranteeType) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_GranteeType.Descriptor instead.
func (Permission_GranteeType) EnumDescriptor() ([]byte,
 []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 0}
}

// Defines the role granted by this permission.
type Permission_Role int32

const (
 // The default value. This value is unused.
 Permission_ROLE_UNSPECIFIED Permission_Role = 0
```

```
 // Owner can use, update, share and delete the resource.
 Permission_OWNER Permission_Role = 1
 // Writer can use, update and share the resource.
 Permission_WRITER Permission_Role = 2
 // Reader can use the resource.
 Permission_READER Permission_Role = 3
)

// Enum value maps for Permission_Role.
var (
 Permission_Role_name = map[int32]string{
  0: "ROLE_UNSPECIFIED",
  1: "OWNER",
  2: "WRITER",
  3: "READER",
 }
 Permission_Role_value = map[string]int32{
  "ROLE_UNSPECIFIED": 0,
  "OWNER":            1,
  "WRITER":           2,
  "READER":           3,
 }
)

func (x Permission_Role) Enum() *Permission_Role {
 p := new(Permission_Role)
 *p = x
 return p
}

func (x Permission_Role) String() string
 {
 return protoimpl.X.EnumStringOf(x.Descriptor(), protoreflect.EnumNumber(x))
}

func (Permission_Role) Descriptor() protoreflect.EnumDescriptor {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1].Descriptor()
}

func (Permission_Role) Type() protoreflect.EnumType {
 return &file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes[1]
}

func (x Permission_Role) Number() protoreflect.EnumNumber {
 return protoreflect.EnumNumber(x)
}

// Deprecated: Use Permission_Role.Descriptor instead.
```

```
func (Permission_Role) EnumDescriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0, 1}
}

// Permission resource grants user, group or the rest of the world access to the
// PaLM API resource (e.g. a tuned model, corpus).
//
// A role is a collection of permitted operations that allows users to perform
// specific actions on PaLM API resources. To make them available to users,
// groups, or service
 accounts, you assign roles. When you assign a role, you
// grant permissions that the role contains.
//
// There are three concentric roles. Each role is a superset of the previous
// role's permitted operations:
//
// - reader can use the resource (e.g. tuned model, corpus) for inference
// - writer has reader's permissions and additionally can edit and share
// - owner has writer's permissions and additionally can delete
type Permission struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Output only. Identifier. The permission name. A unique name will be
 // generated on create. Examples:
 //
 // tunedModels/{tuned_model}/permissions/{permission}
 // corpora/{corpus}/permissions/{permission}
 //
 // Output only.
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Optional. Immutable. The type of the grantee.
 GranteeType *Permission_GranteeType
`protobuf:"varint,2,opt,name=grantee_type,json=granteeType,proto3,enum=google.ai.generativelanguage.v1alpha.P
ermission_GranteeType,oneof"
 json:"grantee_type,omitempty"`
 // Optional. Immutable. The email address of the user of group which this
 // permission refers. Field is not set when permission's grantee type is
 // EVERYONE.
 EmailAddress *string `protobuf:"bytes,3,opt,name=email_address,json=emailAddress,proto3,oneof"
json:"email_address,omitempty"`
 // Required. The role granted by this permission.
 Role *Permission_Role
`protobuf:"varint,4,opt,name=role,proto3,enum=google.ai.generativelanguage.v1alpha.Permission_Role,oneof"
json:"role,omitempty"`
}
```

```
func (x *Permission) Reset() {
 *x = Permission{}
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *Permission) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*Permission) ProtoMessage() {}

func (x *Permission) ProtoReflect() protoreflect.Message
 {
 mi := &file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use Permission.ProtoReflect.Descriptor instead.
func (*Permission) Descriptor() ([]byte, []int) {
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP(), []int{0}
}

func (x *Permission) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *Permission) GetGranteeType() Permission_GranteeType {
 if x != nil && x.GranteeType != nil {
  return *x.GranteeType
 }
 return Permission_GRANTEE_TYPE_UNSPECIFIED
}

func (x *Permission) GetEmailAddress() string {
 if x != nil && x.EmailAddress != nil {
  return *x.EmailAddress
```

```
 }
 return ""
}

func (x *Permission) GetRole() Permission_Role {
 if x != nil && x.Role != nil {
  return *x.Role
 }
 return Permission_ROLE_UNSPECIFIED
}

var
 File_google_ai_generativelanguage_v1alpha_permission_proto protoreflect.FileDescriptor

var file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc = []byte{
 0x0a, 0x35, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x76,
 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f,
 0x6e, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x24, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e,
 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x1a, 0x1f, 0x67,
 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f,
 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19,
 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75,
 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0x87, 0x05, 0x0a, 0x0a, 0x50, 0x65,
 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12, 0x1a, 0x0a, 0x04, 0x6e, 0x61, 0x6d, 0x65,
 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
 0x6e, 0x61, 0x6d, 0x65, 0x12, 0x6c, 0x0a, 0x0c, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65, 0x65, 0x5f,
 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0e, 0x32, 0x3c, 0x2e, 0x67, 0x6f, 0x6f,
 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76,
 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68,
 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x47, 0x72, 0x61,
 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41, 0x05,
 0x48, 0x00, 0x52, 0x0b, 0x67, 0x72, 0x61, 0x6e, 0x74, 0x65,
 0x65, 0x54, 0x79, 0x70, 0x65, 0x88,
 0x01, 0x01, 0x12, 0x30, 0x0a, 0x0d, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72,
 0x65, 0x73, 0x73, 0x18, 0x03, 0x20, 0x01, 0x28, 0x09, 0x42, 0x06, 0xe0, 0x41, 0x01, 0xe0, 0x41,
 0x05, 0x48, 0x01, 0x52, 0x0c, 0x65, 0x6d, 0x61, 0x69, 0x6c, 0x41, 0x64, 0x64, 0x72, 0x65, 0x73,
 0x73, 0x88, 0x01, 0x01, 0x12, 0x53, 0x0a, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x18, 0x04, 0x20, 0x01,
 0x28, 0x0e, 0x32, 0x35, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67,
 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2e, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73,
 0x73, 0x69, 0x6f, 0x6e, 0x2e, 0x52, 0x6f, 0x6c, 0x65, 0x42, 0x03, 0xe0, 0x41, 0x02, 0x48, 0x02,
 0x52, 0x04, 0x72, 0x6f, 0x6c, 0x65, 0x88, 0x01, 0x01, 0x22, 0x4e, 0x0a, 0x0b, 0x47, 0x72, 0x61,
 0x6e, 0x74, 0x65, 0x65, 0x54, 0x79, 0x70, 0x65, 0x12, 0x1c, 0x0a, 0x18, 0x47, 0x52, 0x41,
 0x4e,
 0x54, 0x45, 0x45, 0x5f, 0x54, 0x59, 0x50, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43, 0x49,
```

```
 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x08, 0x0a, 0x04, 0x55, 0x53, 0x45, 0x52, 0x10, 0x01,
 0x12, 0x09, 0x0a, 0x05, 0x47, 0x52, 0x4f, 0x55, 0x50, 0x10, 0x02, 0x12, 0x0c, 0x0a, 0x08, 0x45,
 0x56, 0x45, 0x52, 0x59, 0x4f, 0x4e, 0x45, 0x10, 0x03, 0x22, 0x3f, 0x0a, 0x04, 0x52, 0x6f, 0x6c,
 0x65, 0x12, 0x14, 0x0a, 0x10, 0x52, 0x4f, 0x4c, 0x45, 0x5f, 0x55, 0x4e, 0x53, 0x50, 0x45, 0x43,
 0x49, 0x46, 0x49, 0x45, 0x44, 0x10, 0x00, 0x12, 0x09, 0x0a, 0x05, 0x4f, 0x57, 0x4e, 0x45, 0x52,
 0x10, 0x01, 0x12, 0x0a, 0x0a, 0x06, 0x57, 0x52, 0x49, 0x54, 0x45, 0x52, 0x10, 0x02, 0x12, 0x0a,
 0x0a, 0x06, 0x52, 0x45, 0x41, 0x44, 0x45, 0x52, 0x10, 0x03, 0x3a, 0xaa, 0x01, 0xea, 0x41, 0xa6,
 0x01, 0x0a, 0x2c, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e,
 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x61, 0x70, 0x69, 0x73,
 0x2e, 0x63, 0x6f, 0x6d,
 0x2f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x12,
 0x32, 0x74, 0x75, 0x6e, 0x65, 0x64, 0x4d, 0x6f, 0x64, 0x65, 0x6c, 0x73, 0x2f, 0x7b, 0x74, 0x75,
 0x6e, 0x65, 0x64, 0x5f, 0x6d, 0x6f, 0x64, 0x65, 0x6c, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69,
 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69,
 0x6f, 0x6e, 0x7d, 0x12, 0x29, 0x63, 0x6f, 0x72, 0x70, 0x6f, 0x72, 0x61, 0x2f, 0x7b, 0x63, 0x6f,
 0x72, 0x70, 0x75, 0x73, 0x7d, 0x2f, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e,
 0x73, 0x2f, 0x7b, 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x7d, 0x2a, 0x0b,
 0x70, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x73, 0x32, 0x0a, 0x70, 0x65, 0x72,
 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x42, 0x0f, 0x0a, 0x0d, 0x5f, 0x67, 0x72, 0x61, 0x6e,
 0x74, 0x65, 0x65, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x42, 0x10, 0x0a, 0x0e, 0x5f, 0x65, 0x6d, 0x61,
 0x69, 0x6c, 0x5f, 0x61, 0x64, 0x64, 0x72, 0x65, 0x73,
 0x73, 0x42, 0x07, 0x0a, 0x05, 0x5f, 0x72,
 0x6f, 0x6c, 0x65, 0x42, 0x9d, 0x01, 0x0a, 0x28, 0x63, 0x6f, 0x6d, 0x2e, 0x67, 0x6f, 0x6f, 0x67,
 0x6c, 0x65, 0x2e, 0x61, 0x69, 0x2e, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65,
 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2e, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61,
 0x42, 0x0f, 0x50, 0x65, 0x72, 0x6d, 0x69, 0x73, 0x73, 0x69, 0x6f, 0x6e, 0x50, 0x72, 0x6f, 0x74,
 0x6f, 0x50, 0x01, 0x5a, 0x5e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c,
 0x65, 0x2e, 0x63, 0x6f, 0x6d, 0x2f, 0x67, 0x6f, 0x2f, 0x61, 0x69, 0x2f, 0x67, 0x65, 0x6e, 0x65,
 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x2f, 0x61,
 0x70, 0x69, 0x76, 0x31, 0x61, 0x6c, 0x70, 0x68, 0x61, 0x2f, 0x67, 0x65, 0x6e, 0x65, 0x72, 0x61,
 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75, 0x61, 0x67, 0x65, 0x70, 0x62, 0x3b, 0x67,
 0x65, 0x6e, 0x65, 0x72, 0x61, 0x74, 0x69, 0x76, 0x65, 0x6c, 0x61, 0x6e, 0x67, 0x75,
 0x61, 0x67,
 0x65, 0x70, 0x62, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce sync.Once
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
)

func file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescGZIP() []byte {
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescOnce.Do(func() {
  file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData)
 })
 return file_google_ai_generativelanguage_v1alpha_permission_proto_rawDescData
```

```
}

var file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes = make([]protoimpl.EnumInfo, 2)
var file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes = make([]protoimpl.MessageInfo, 1)
var file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes
 = []any{
 (Permission_GranteeType)(0), // 0: google.ai.generativelanguage.v1alpha.Permission.GranteeType
 (Permission_Role)(0),        // 1: google.ai.generativelanguage.v1alpha.Permission.Role
 (*Permission)(nil),          // 2: google.ai.generativelanguage.v1alpha.Permission
}
var file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = []int32{
 0, // 0: google.ai.generativelanguage.v1alpha.Permission.grantee_type:type_name ->
google.ai.generativelanguage.v1alpha.Permission.GranteeType
 1, // 1: google.ai.generativelanguage.v1alpha.Permission.role:type_name ->
google.ai.generativelanguage.v1alpha.Permission.Role
 2, // [2:2] is the sub-list for method output_type
 2, // [2:2] is the sub-list for method input_type
 2, // [2:2] is the sub-list for extension type_name
 2, // [2:2] is the sub-list for extension extendee
 0, // [0:2] is the sub-list for field type_name
}

func init() { file_google_ai_generativelanguage_v1alpha_permission_proto_init()
 }
func file_google_ai_generativelanguage_v1alpha_permission_proto_init() {
 if File_google_ai_generativelanguage_v1alpha_permission_proto != nil {
  return
 }
 file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes[0].OneofWrappers = []any{}
 type x struct{}
 out := protoimpl.TypeBuilder{
  File: protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor: file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc,
   NumEnums:      2,
   NumMessages:   1,
   NumExtensions: 0,
   NumServices:   0,
  },
  GoTypes:           file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes,
  DependencyIndexes: file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs,
  EnumInfos:         file_google_ai_generativelanguage_v1alpha_permission_proto_enumTypes,
  MessageInfos:      file_google_ai_generativelanguage_v1alpha_permission_proto_msgTypes,
 }.Build()
 File_google_ai_generativelanguage_v1alpha_permission_proto = out.File
 file_google_ai_generativelanguage_v1alpha_permission_proto_rawDesc
 = nil
 file_google_ai_generativelanguage_v1alpha_permission_proto_goTypes = nil
```

```
 file_google_ai_generativelanguage_v1alpha_permission_proto_depIdxs = nil
}

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// Code generated by protoc-gen-go. DO NOT EDIT.
// versions:
//  protoc-gen-go v1.35.2
//  protoc        v4.25.3
// source: google/cloud/commerce/consumer/procurement/v1/license_management_service.proto

package procurementpb

import (
 context "context"
 reflect "reflect"
 sync "sync"

 _ "google.golang.org/genproto/googleapis/api/annotations"
 grpc "google.golang.org/grpc"
 codes "google.golang.org/grpc/codes"
 status
```

```
 "google.golang.org/grpc/status"
 protoreflect "google.golang.org/protobuf/reflect/protoreflect"
 protoimpl "google.golang.org/protobuf/runtime/protoimpl"
 durationpb "google.golang.org/protobuf/types/known/durationpb"
 fieldmaskpb "google.golang.org/protobuf/types/known/fieldmaskpb"
 timestamppb "google.golang.org/protobuf/types/known/timestamppb"
)

const (
 // Verify that this generated code is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(20 - protoimpl.MinVersion)
 // Verify that runtime/protoimpl is sufficiently up-to-date.
 _ = protoimpl.EnforceVersion(protoimpl.MaxVersion - 20)
)

// Assignment protocol for a license pool.
type AssignmentProtocol struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The type of assignment protocol.
 //
 // Types that are assignable to AssignmentType:
 //
 // *AssignmentProtocol_ManualAssignmentType_
 // *AssignmentProtocol_AutoAssignmentType_
 AssignmentType
 isAssignmentProtocol_AssignmentType `protobuf_oneof:"assignment_type"`
}

func (x *AssignmentProtocol) Reset() {
 *x = AssignmentProtocol{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol) ProtoMessage() {}

func (x *AssignmentProtocol) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0]
```

```
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0}
}

func (m *AssignmentProtocol) GetAssignmentType() isAssignmentProtocol_AssignmentType {
 if m != nil {
  return m.AssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetManualAssignmentType() *AssignmentProtocol_ManualAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_ManualAssignmentType_); ok {
  return x.ManualAssignmentType
 }
 return nil
}

func (x *AssignmentProtocol) GetAutoAssignmentType() *AssignmentProtocol_AutoAssignmentType {
 if x, ok := x.GetAssignmentType().(*AssignmentProtocol_AutoAssignmentType_); ok {
  return x.AutoAssignmentType
 }
 return nil
}

type isAssignmentProtocol_AssignmentType interface {
 isAssignmentProtocol_AssignmentType()
}

type AssignmentProtocol_ManualAssignmentType_ struct {
 // Allow manual assignments triggered by administrative operations only.
 ManualAssignmentType *AssignmentProtocol_ManualAssignmentType
`protobuf:"bytes,2,opt,name=manual_assignment_type,json=manualAssignmentType,proto3,oneof"`
}
```

```
type
 AssignmentProtocol_AutoAssignmentType_ struct {
 // Allow automatic assignments triggered by data plane operations.
 AutoAssignmentType *AssignmentProtocol_AutoAssignmentType
`protobuf:"bytes,3,opt,name=auto_assignment_type,json=autoAssignmentType,proto3,oneof"`
}

func (*AssignmentProtocol_ManualAssignmentType_) isAssignmentProtocol_AssignmentType() {}

func (*AssignmentProtocol_AutoAssignmentType_) isAssignmentProtocol_AssignmentType() {}

// A license pool represents a pool of licenses that can be assigned to users.
type LicensePool struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Identifier. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
 // Required. Assignment protocol for the license pool.
 LicenseAssignmentProtocol *AssignmentProtocol
`protobuf:"bytes,2,opt,name=license_assignment_protocol,json=licenseAssignmentProtocol,proto3"
 json:"license_assignment_protocol,omitempty"`
 // Output only. Licenses count that are available to be assigned.
 AvailableLicenseCount int32
`protobuf:"varint,3,opt,name=available_license_count,json=availableLicenseCount,proto3"
json:"available_license_count,omitempty"`
 // Output only. Total number of licenses in the pool.
 TotalLicenseCount int32 `protobuf:"varint,4,opt,name=total_license_count,json=totalLicenseCount,proto3"
json:"total_license_count,omitempty"`
}

func (x *LicensePool) Reset() {
 *x = LicensePool{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensePool) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensePool) ProtoMessage() {}

func (x *LicensePool) ProtoReflect() protoreflect.Message {
```

```
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[1]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensePool.ProtoReflect.Descriptor instead.
func (*LicensePool) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{1}
}

func (x *LicensePool) GetName() string {
 if x != nil {
  return x.Name
 }
 return ""
}

func (x *LicensePool) GetLicenseAssignmentProtocol() *AssignmentProtocol {
 if x != nil {
  return x.LicenseAssignmentProtocol
 }
 return nil
}

func (x *LicensePool) GetAvailableLicenseCount() int32 {
 if x != nil {
  return x.AvailableLicenseCount
 }
 return 0
}

func (x *LicensePool) GetTotalLicenseCount() int32 {
 if x != nil {
  return x.TotalLicenseCount
 }
 return 0
}
```

```
// Request message for getting a
 license pool.
type GetLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The name of the license pool to get.
 // Format: `billingAccounts/{billing_account}/orders/{order}/licensePool`
 Name string `protobuf:"bytes,1,opt,name=name,proto3" json:"name,omitempty"`
}

func (x *GetLicensePoolRequest) Reset() {
 *x = GetLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *GetLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*GetLicensePoolRequest) ProtoMessage() {}

func (x *GetLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[2]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if
 ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use GetLicensePoolRequest.ProtoReflect.Descriptor instead.
func (*GetLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{2}
}

func (x *GetLicensePoolRequest) GetName() string {
```

```
 if x != nil {
  return x.Name
 }
 return ""
}

// Request message for updating a license pool.
type UpdateLicensePoolRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. The license pool to update.
 //
 // The license pool's name field is used to identify the license pool to
 // update. Format:
 // `billingAccounts/{billing_account}/orders/{order}/licensePool`.
 LicensePool *LicensePool `protobuf:"bytes,1,opt,name=license_pool,json=licensePool,proto3"
json:"license_pool,omitempty"`
 //
 Required. The list of fields to update.
 UpdateMask *fieldmaskpb.FieldMask `protobuf:"bytes,2,opt,name=update_mask,json=updateMask,proto3"
json:"update_mask,omitempty"`
}

func (x *UpdateLicensePoolRequest) Reset() {
 *x = UpdateLicensePoolRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UpdateLicensePoolRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UpdateLicensePoolRequest) ProtoMessage() {}

func (x *UpdateLicensePoolRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[3]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
```

```
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UpdateLicensePoolRequest.ProtoReflect.Descriptor
 instead.
func (*UpdateLicensePoolRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{3}
}

func (x *UpdateLicensePoolRequest) GetLicensePool() *LicensePool {
 if x != nil {
  return x.LicensePool
 }
 return nil
}

func (x *UpdateLicensePoolRequest) GetUpdateMask() *fieldmaskpb.FieldMask {
 if x != nil {
  return x.UpdateMask
 }
 return nil
}

// Request message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
type AssignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func
 (x *AssignRequest) Reset() {
 *x = AssignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 ms.StoreMessageInfo(mi)
}

func (x *AssignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignRequest) ProtoMessage() {}

func (x *AssignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[4]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignRequest.ProtoReflect.Descriptor instead.
func (*AssignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{4}
}

func (x *AssignRequest) GetParent()
 string {
 if x != nil {
  return x.Parent
 }
 return ""
}

func (x *AssignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Assign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementServic
e.Assign].
```

```
type AssignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignResponse) Reset() {
 *x = AssignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignResponse) ProtoMessage() {}

func (x *AssignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[5]
 if x
 != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignResponse.ProtoReflect.Descriptor instead.
func (*AssignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{5}
}

// Request message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
```

```
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Required. Username.
 // Format: `name@domain.com`.
 Usernames []string `protobuf:"bytes,2,rep,name=usernames,proto3" json:"usernames,omitempty"`
}

func (x *UnassignRequest) Reset()
 {
 *x = UnassignRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignRequest) ProtoMessage() {}

func (x *UnassignRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[6]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use UnassignRequest.ProtoReflect.Descriptor instead.
func (*UnassignRequest) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{6}
}

func (x *UnassignRequest) GetParent() string {
 if x != nil {
  return
```

```
 x.Parent
 }
 return ""
}

func (x *UnassignRequest) GetUsernames() []string {
 if x != nil {
  return x.Usernames
 }
 return nil
}

// Response message for
//
[LicenseManagementService.Unassign][google.cloud.commerce.consumer.procurement.v1.LicenseManagementSer
vice.Unassign].
type UnassignResponse struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *UnassignResponse) Reset() {
 *x = UnassignResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *UnassignResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*UnassignResponse) ProtoMessage() {}

func (x *UnassignResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[7]
 if x != nil {
  ms
 := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
```

```
}

// Deprecated: Use UnassignResponse.ProtoReflect.Descriptor instead.
func (*UnassignResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{7}
}

// Request message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersRequest struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Required. License pool name.
 Parent string `protobuf:"bytes,1,opt,name=parent,proto3" json:"parent,omitempty"`
 // Optional. The maximum number of users to return. The service may return
 // fewer than this value.
 PageSize int32 `protobuf:"varint,2,opt,name=page_size,json=pageSize,proto3"
 json:"page_size,omitempty"`
 // Optional. A page token, received from a previous `EnumerateLicensedUsers`
 // call. Provide this to retrieve the subsequent page.
 PageToken string `protobuf:"bytes,3,opt,name=page_token,json=pageToken,proto3" json:"page_token,omitempty"`
}

func (x *EnumerateLicensedUsersRequest) Reset() {
 *x = EnumerateLicensedUsersRequest{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersRequest) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*EnumerateLicensedUsersRequest) ProtoMessage() {}

func (x *EnumerateLicensedUsersRequest) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[8]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
```

```
 if ms.LoadMessageInfo()
 == nil {
  ms.StoreMessageInfo(mi)
 }
 return ms
}
return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersRequest.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersRequest) Descriptor() ([]byte, []int) {
return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{8}
}

func (x *EnumerateLicensedUsersRequest) GetParent() string {
if x != nil {
 return x.Parent
}
return ""
}

func (x *EnumerateLicensedUsersRequest) GetPageSize() int32 {
if x != nil {
 return x.PageSize
}
return 0
}

func (x *EnumerateLicensedUsersRequest) GetPageToken() string {
if x != nil {
 return x.PageToken
}
return ""
}

// A licensed user.
type LicensedUser struct {
state         protoimpl.MessageState
sizeCache     protoimpl.SizeCache
unknownFields protoimpl.UnknownFields

// Username.
// Format: `name@domain.com`.
Username string `protobuf:"bytes,1,opt,name=username,proto3" json:"username,omitempty"`
//
```

```
 Output only. Timestamp when the license was assigned.
 AssignTime *timestamppb.Timestamp `protobuf:"bytes,2,opt,name=assign_time,json=assignTime,proto3"
json:"assign_time,omitempty"`
 // Output only. Timestamp when the license was recently used. This may not be
 // the most recent usage time, and will be updated regularly (within 24
 // hours).
 RecentUsageTime *timestamppb.Timestamp
`protobuf:"bytes,3,opt,name=recent_usage_time,json=recentUsageTime,proto3"
json:"recent_usage_time,omitempty"`
}

func (x *LicensedUser) Reset() {
 *x = LicensedUser{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *LicensedUser) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*LicensedUser) ProtoMessage() {}

func (x *LicensedUser) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[9]
 if
 x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use LicensedUser.ProtoReflect.Descriptor instead.
func (*LicensedUser) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{9}
}

func (x *LicensedUser) GetUsername() string {
 if x != nil {
```

```
  return x.Username
 }
 return ""
}

func (x *LicensedUser) GetAssignTime() *timestamppb.Timestamp {
 if x != nil {
  return x.AssignTime
 }
 return nil
}

func (x *LicensedUser) GetRecentUsageTime() *timestamppb.Timestamp {
 if x != nil {
  return x.RecentUsageTime
 }
 return nil
}

// Response message for
//
[LicenseManagementService.EnumerateLicensedUsers][google.cloud.commerce.consumer.procurement.v1.License
ManagementService.EnumerateLicensedUsers].
type EnumerateLicensedUsersResponse
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // The list of licensed users.
 LicensedUsers []*LicensedUser `protobuf:"bytes,1,rep,name=licensed_users,json=licensedUsers,proto3"
json:"licensed_users,omitempty"`
 // A token that can be sent as `page_token` to retrieve the next page.
 // If this field is omitted, there are no subsequent pages.
 NextPageToken string `protobuf:"bytes,2,opt,name=next_page_token,json=nextPageToken,proto3"
json:"next_page_token,omitempty"`
}

func (x *EnumerateLicensedUsersResponse) Reset() {
 *x = EnumerateLicensedUsersResponse{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *EnumerateLicensedUsersResponse) String() string {
 return protoimpl.X.MessageStringOf(x)
```

```
}

func (*EnumerateLicensedUsersResponse) ProtoMessage() {}

func
 (x *EnumerateLicensedUsersResponse) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[10]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use EnumerateLicensedUsersResponse.ProtoReflect.Descriptor instead.
func (*EnumerateLicensedUsersResponse) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{10}
}

func (x *EnumerateLicensedUsersResponse) GetLicensedUsers() []*LicensedUser {
 if x != nil {
  return x.LicensedUsers
 }
 return nil
}

func (x *EnumerateLicensedUsersResponse) GetNextPageToken() string {
 if x != nil {
  return x.NextPageToken
 }
 return ""
}

// Allow manual assignments triggered by administrative operations only.
type AssignmentProtocol_ManualAssignmentType
 struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields
}

func (x *AssignmentProtocol_ManualAssignmentType) Reset() {
```

```
 *x = AssignmentProtocol_ManualAssignmentType{}
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_ManualAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_ManualAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_ManualAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[11]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated:
 Use AssignmentProtocol_ManualAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_ManualAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
[]int{0, 0}
}

// Configuration for automatic assignments handled by data plane operations.
type AssignmentProtocol_AutoAssignmentType struct {
 state         protoimpl.MessageState
 sizeCache     protoimpl.SizeCache
 unknownFields protoimpl.UnknownFields

 // Optional. The time to live for an inactive license. After this time has
 // passed, the license will be automatically unassigned from the user. Must
 // be at least 7 days, if set. If unset, the license will never expire.
 InactiveLicenseTtl *durationpb.Duration
`protobuf:"bytes,1,opt,name=inactive_license_ttl,json=inactiveLicenseTtl,proto3"
json:"inactive_license_ttl,omitempty"`
}
```

```
func (x *AssignmentProtocol_AutoAssignmentType) Reset() {
 *x = AssignmentProtocol_AutoAssignmentType{}
 mi
 := &file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
 ms.StoreMessageInfo(mi)
}

func (x *AssignmentProtocol_AutoAssignmentType) String() string {
 return protoimpl.X.MessageStringOf(x)
}

func (*AssignmentProtocol_AutoAssignmentType) ProtoMessage() {}

func (x *AssignmentProtocol_AutoAssignmentType) ProtoReflect() protoreflect.Message {
 mi :=
&file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[12]
 if x != nil {
  ms := protoimpl.X.MessageStateOf(protoimpl.Pointer(x))
  if ms.LoadMessageInfo() == nil {
   ms.StoreMessageInfo(mi)
  }
  return ms
 }
 return mi.MessageOf(x)
}

// Deprecated: Use AssignmentProtocol_AutoAssignmentType.ProtoReflect.Descriptor instead.
func (*AssignmentProtocol_AutoAssignmentType) Descriptor() ([]byte, []int) {
 return
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP(),
 []int{0, 1}
}

func (x *AssignmentProtocol_AutoAssignmentType) GetInactiveLicenseTtl() *durationpb.Duration {
 if x != nil {
  return x.InactiveLicenseTtl
 }
 return nil
}

var File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto
protoreflect.FileDescriptor

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc =
[]byte{
 0x0a, 0x4e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2f, 0x63,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2f, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
```

0x2f, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2f, 0x76, 0x31, 0x2f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x6d, 0x61, 0x6e, 0x61, 0x67, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x73, 0x65, 0x72, 0x76, 0x69, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x12, 0x2d, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f,
0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x1a, 0x1c, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x61, 0x6e, 0x6e, 0x6f, 0x74, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x73, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x17, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x63, 0x6c, 0x69, 0x65, 0x6e, 0x74, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x62, 0x65, 0x68, 0x61, 0x76, 0x69, 0x6f, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x19, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x61, 0x70, 0x69, 0x2f, 0x72, 0x65, 0x73, 0x6f, 0x75, 0x72, 0x63, 0x65, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x64,
0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x2e, 0x70, 0x72, 0x6f,
0x74, 0x6f, 0x1a, 0x20, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x66, 0x69, 0x65, 0x6c, 0x64, 0x5f, 0x6d, 0x61, 0x73, 0x6b, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x1a, 0x1f, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2f, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2f, 0x74, 0x69, 0x6d, 0x65, 0x73, 0x74, 0x61, 0x6d, 0x70, 0x2e, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x22, 0xc3, 0x03, 0x0a, 0x12, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x8e, 0x01, 0x0a, 0x16, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x56, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73,
0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70,
0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x14, 0x6d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x88, 0x01, 0x0a, 0x14, 0x61, 0x75, 0x74, 0x6f, 0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x18, 0x03, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x54, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76, 0x31, 0x2e, 0x41, 0x73, 0x73,
0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x2e, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x48, 0x00, 0x52, 0x12, 0x61, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x16, 0x0a, 0x14, 0x4d, 0x61, 0x6e, 0x75, 0x61, 0x6c, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x1a, 0x66, 0x0a, 0x12, 0x41, 0x75, 0x74, 0x6f, 0x41, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x54, 0x79, 0x70, 0x65, 0x12, 0x50, 0x0a, 0x14, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x5f, 0x74, 0x74, 0x6c, 0x18, 0x01, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x19, 0x2e, 0x67, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x70, 0x72,

0x6f, 0x74, 0x6f, 0x62, 0x75, 0x66, 0x2e, 0x44, 0x75, 0x72, 0x61, 0x74, 0x69, 0x6f, 0x6e, 0x42,
0x03, 0xe0, 0x41, 0x01,
0x52, 0x12, 0x69, 0x6e, 0x61, 0x63, 0x74, 0x69, 0x76, 0x65, 0x4c, 0x69,
0x63, 0x65, 0x6e, 0x73, 0x65, 0x54, 0x74, 0x6c, 0x42, 0x11, 0x0a, 0x0f, 0x61, 0x73, 0x73, 0x69,
0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x74, 0x79, 0x70, 0x65, 0x22, 0xbe, 0x03, 0x0a, 0x0b,
0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x12, 0x17, 0x0a, 0x04, 0x6e,
0x61, 0x6d, 0x65, 0x18, 0x01, 0x20, 0x01, 0x28, 0x09, 0x42, 0x03, 0xe0, 0x41, 0x08, 0x52, 0x04,
0x6e, 0x61, 0x6d, 0x65, 0x12, 0x86, 0x01, 0x0a, 0x1b, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65,
0x5f, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x5f, 0x70, 0x72, 0x6f, 0x74,
0x6f, 0x63, 0x6f, 0x6c, 0x18, 0x02, 0x20, 0x01, 0x28, 0x0b, 0x32, 0x41, 0x2e, 0x67, 0x6f, 0x6f,
0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72,
0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72, 0x6f, 0x63,
0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x76,
0x31, 0x2e, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x42, 0x03, 0xe0,
0x41, 0x02, 0x52, 0x19, 0x6c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x41, 0x73, 0x73, 0x69, 0x67,
0x6e, 0x6d, 0x65, 0x6e, 0x74, 0x50, 0x72, 0x6f, 0x74, 0x6f, 0x63, 0x6f, 0x6c, 0x12, 0x3b, 0x0a,
0x17, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x5f, 0x6c, 0x69, 0x63, 0x65, 0x6e,
0x73, 0x65, 0x5f, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x18, 0x03, 0x20, 0x01, 0x28, 0x05, 0x42, 0x03,
0xe0, 0x41, 0x03, 0x52, 0x15, 0x61, 0x76, 0x61, 0x69, 0x6c, 0x61, 0x62, 0x6c, 0x65, 0x4c, 0x69,
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0x70, 0x6f, 0x6e, 0x73, 0x65, 0x22, 0x58, 0xda, 0x41, 0x10, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,
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0x3a, 0x01, 0x2a, 0x22, 0x3a, 0x2f, 0x76, 0x31, 0x2f, 0x7b, 0x70, 0x61, 0x72, 0x65, 0x6e, 0x74,
0x3d, 0x62, 0x69, 0x6c, 0x6c, 0x69, 0x6e, 0x67, 0x41, 0x63, 0x63, 0x6f, 0x75, 0x6e, 0x74, 0x73,
0x2f, 0x2a, 0x2f, 0x6f,
0x72, 0x64, 0x65, 0x72, 0x73, 0x2f, 0x2a, 0x2f, 0x6c, 0x69, 0x63, 0x65,
0x6e, 0x73, 0x65, 0x50, 0x6f, 0x6f, 0x6c, 0x7d, 0x3a, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12,
0xe7, 0x01, 0x0a, 0x08, 0x55, 0x6e, 0x61, 0x73, 0x73, 0x69, 0x67, 0x6e, 0x12, 0x3e, 0x2e, 0x67,
0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x63, 0x6c, 0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d,
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0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72, 0x2e, 0x70, 0x72,
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0x73, 0x73, 0x69, 0x67, 0x6e, 0x52, 0x65, 0x73, 0x70,
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0x65, 0x73, 0x82, 0xd3, 0xe4, 0x93, 0x02, 0x41, 0x3a, 0x01, 0x2a, 0x22, 0x3c, 0x2f, 0x76, 0x31,
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0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69, 0x63, 0x65, 0x6e, 0x73, 0x65, 0x64, 0x55,
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0x6f, 0x75, 0x64, 0x2e, 0x63, 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x63, 0x6f, 0x6e,
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0x65, 0x6e,
0x74, 0x2e, 0x76, 0x31, 0x2e, 0x45, 0x6e, 0x75, 0x6d, 0x65, 0x72, 0x61, 0x74, 0x65, 0x4c, 0x69,
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```
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 0x62, 0x3b, 0x70, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x70, 0x62, 0xaa,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x2e, 0x43, 0x6c, 0x6f, 0x75,
 0x64, 0x2e, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x2e, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
 0x2e, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74, 0x2e, 0x56, 0x31, 0xca,
 0x02, 0x2d, 0x47, 0x6f, 0x6f, 0x67, 0x6c, 0x65, 0x5c, 0x43, 0x6c, 0x6f, 0x75, 0x64, 0x5c, 0x43,
 0x6f, 0x6d, 0x6d, 0x65, 0x72, 0x63, 0x65, 0x5c, 0x43, 0x6f, 0x6e, 0x73, 0x75, 0x6d, 0x65, 0x72,
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 0x6d, 0x65, 0x72, 0x3a, 0x3a, 0x50, 0x72, 0x6f, 0x63, 0x75, 0x72, 0x65, 0x6d, 0x65, 0x6e, 0x74,
 0x3a, 0x3a, 0x56, 0x31, 0x62, 0x06, 0x70, 0x72, 0x6f, 0x74, 0x6f, 0x33,
}

var (
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce
sync.Once
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
 = file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc
)

func
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescGZIP()
[]byte {
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescOnce.Do(f
unc() {
  file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData =
protoimpl.X.CompressGZIP(file_google_cloud_commerce_consumer_procurement_v1_license_management_servi
ce_proto_rawDescData)
 })
 return file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDescData
}

var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes =
make([]protoimpl.MessageInfo, 13)
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes =
```

```
[]any{
 (*AssignmentProtocol)(nil),
                    // 0: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 (*LicensePool)(nil),                        // 1: google.cloud.commerce.consumer.procurement.v1.LicensePool
 (*GetLicensePoolRequest)(nil),                  // 2:
google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 (*UpdateLicensePoolRequest)(nil),               // 3:
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 (*AssignRequest)(nil),                      // 4: google.cloud.commerce.consumer.procurement.v1.AssignRequest
 (*AssignResponse)(nil),                      // 5: google.cloud.commerce.consumer.procurement.v1.AssignResponse
 (*UnassignRequest)(nil),                     // 6: google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 (*UnassignResponse)(nil),                     // 7: google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 (*EnumerateLicensedUsersRequest)(nil),          // 8:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 (*LicensedUser)(nil),
                        // 9: google.cloud.commerce.consumer.procurement.v1.LicensedUser
 (*EnumerateLicensedUsersResponse)(nil),         // 10:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 (*AssignmentProtocol_ManualAssignmentType)(nil), // 11:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 (*AssignmentProtocol_AutoAssignmentType)(nil),   // 12:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 (*fieldmaskpb.FieldMask)(nil),                  // 13: google.protobuf.FieldMask
 (*timestamppb.Timestamp)(nil),                   // 14: google.protobuf.Timestamp
 (*durationpb.Duration)(nil),                    // 15: google.protobuf.Duration
}
var file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs =
[]int32{
 11, // 0:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.manual_assignment_type:type_name
 -> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.ManualAssignmentType
 12, // 1: google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.auto_assignment_type:type_name -
> google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType
 0,  // 2: google.cloud.commerce.consumer.procurement.v1.LicensePool.license_assignment_protocol:type_name ->
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol
 1,  // 3: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.license_pool:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 13, // 4: google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest.update_mask:type_name ->
google.protobuf.FieldMask
 14, // 5: google.cloud.commerce.consumer.procurement.v1.LicensedUser.assign_time:type_name ->
google.protobuf.Timestamp
 14, // 6: google.cloud.commerce.consumer.procurement.v1.LicensedUser.recent_usage_time:type_name
 -> google.protobuf.Timestamp
 9,  // 7:
google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse.licensed_users:type_name ->
google.cloud.commerce.consumer.procurement.v1.LicensedUser
 15, // 8:
google.cloud.commerce.consumer.procurement.v1.AssignmentProtocol.AutoAssignmentType.inactive_license_ttl:t
```

```
ype_name -> google.protobuf.Duration
 2,  // 9: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:input_type -
> google.cloud.commerce.consumer.procurement.v1.GetLicensePoolRequest
 3,  // 10:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:input_type ->
google.cloud.commerce.consumer.procurement.v1.UpdateLicensePoolRequest
 4,  // 11: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:input_type ->
google.cloud.commerce.consumer.procurement.v1.AssignRequest
 6,  // 12: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:input_type
 -> google.cloud.commerce.consumer.procurement.v1.UnassignRequest
 8,  // 13:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:input_typ
e -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersRequest
 1,  // 14:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.GetLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 1,  // 15:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.UpdateLicensePool:output_type ->
google.cloud.commerce.consumer.procurement.v1.LicensePool
 5,  // 16: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Assign:output_type ->
google.cloud.commerce.consumer.procurement.v1.AssignResponse
 7,  // 17: google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.Unassign:output_type ->
google.cloud.commerce.consumer.procurement.v1.UnassignResponse
 10, // 18:
google.cloud.commerce.consumer.procurement.v1.LicenseManagementService.EnumerateLicensedUsers:output_ty
pe
 -> google.cloud.commerce.consumer.procurement.v1.EnumerateLicensedUsersResponse
 14, // [14:19] is the sub-list for method output_type
 9,  // [9:14] is the sub-list for method input_type
 9,  // [9:9] is the sub-list for extension type_name
 9,  // [9:9] is the sub-list for extension extendee
 0,  // [0:9] is the sub-list for field type_name
}

func init() {
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init()
}
func file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_init() {
 if File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto != nil {
  return
 }
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes[0].Oneof
Wrappers = []any{
  (*AssignmentProtocol_ManualAssignmentType_)(nil),
  (*AssignmentProtocol_AutoAssignmentType_)(nil),
 }
 type x struct{}
 out := protoimpl.TypeBuilder{
```

```
  File:
 protoimpl.DescBuilder{
   GoPackagePath: reflect.TypeOf(x{}).PkgPath(),
   RawDescriptor:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc,
   NumEnums:      0,
   NumMessages:   13,
   NumExtensions: 0,
   NumServices:   1,
  },
  GoTypes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes,
  DependencyIndexes:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs,
  MessageInfos:
file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_msgTypes,
 }.Build()
 File_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto = out.File
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_rawDesc = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_goTypes = nil
 file_google_cloud_commerce_consumer_procurement_v1_license_management_service_proto_depIdxs
 = nil
}

// Reference imports to suppress errors if they are not otherwise used.
var _ context.Context
var _ grpc.ClientConnInterface

// This is a compile-time assertion to ensure that this generated file
// is compatible with the grpc package it is being compiled against.
const _ = grpc.SupportPackageIsVersion6

// LicenseManagementServiceClient is the client API for LicenseManagementService service.
//
// For semantics around ctx use and closing/ending streaming RPCs, please refer to
https://godoc.org/google.golang.org/grpc#ClientConn.NewStream.
type LicenseManagementServiceClient interface {
 // Gets the license pool.
 GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(ctx context.Context, in *UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool,
error)
 // Assigns a license to a user.
 Assign(ctx
 context.Context, in *AssignRequest, opts ...grpc.CallOption) (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(ctx context.Context, in *UnassignRequest, opts ...grpc.CallOption) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
```

```
 EnumerateLicensedUsers(ctx context.Context, in *EnumerateLicensedUsersRequest, opts ...grpc.CallOption)
(*EnumerateLicensedUsersResponse, error)
}

type licenseManagementServiceClient struct {
 cc grpc.ClientConnInterface
}

func NewLicenseManagementServiceClient(cc grpc.ClientConnInterface) LicenseManagementServiceClient {
 return &licenseManagementServiceClient{cc}
}

func (c *licenseManagementServiceClient) GetLicensePool(ctx context.Context, in *GetLicensePoolRequest, opts
...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool", in, out, opts...)
 if err != nil {
  return nil, err
 }
 return
 out, nil
}

func (c *licenseManagementServiceClient) UpdateLicensePool(ctx context.Context, in
*UpdateLicensePoolRequest, opts ...grpc.CallOption) (*LicensePool, error) {
 out := new(LicensePool)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Assign(ctx context.Context, in *AssignRequest, opts ...grpc.CallOption)
(*AssignResponse, error) {
 out := new(AssignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign", in,
out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) Unassign(ctx context.Context, in *UnassignRequest, opts
```

```
...grpc.CallOption) (*UnassignResponse, error) {
 out := new(UnassignResponse)
 err := c.cc.Invoke(ctx, "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 in, out, opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

func (c *licenseManagementServiceClient) EnumerateLicensedUsers(ctx context.Context, in
*EnumerateLicensedUsersRequest, opts ...grpc.CallOption) (*EnumerateLicensedUsersResponse, error) {
 out := new(EnumerateLicensedUsersResponse)
 err := c.cc.Invoke(ctx,
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers", in, out,
opts...)
 if err != nil {
  return nil, err
 }
 return out, nil
}

// LicenseManagementServiceServer is the server API for LicenseManagementService service.
type LicenseManagementServiceServer interface {
 // Gets the license pool.
 GetLicensePool(context.Context, *GetLicensePoolRequest) (*LicensePool, error)
 // Updates the license pool if one exists for this Order.
 UpdateLicensePool(context.Context, *UpdateLicensePoolRequest) (*LicensePool, error)
 // Assigns a license to a user.
 Assign(context.Context, *AssignRequest)
 (*AssignResponse, error)
 // Unassigns a license from a user.
 Unassign(context.Context, *UnassignRequest) (*UnassignResponse, error)
 // Enumerates all users assigned a license.
 EnumerateLicensedUsers(context.Context, *EnumerateLicensedUsersRequest)
(*EnumerateLicensedUsersResponse, error)
}

// UnimplementedLicenseManagementServiceServer can be embedded to have forward compatible
implementations.
type UnimplementedLicenseManagementServiceServer struct {
}

func (*UnimplementedLicenseManagementServiceServer) GetLicensePool(context.Context,
*GetLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method GetLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) UpdateLicensePool(context.Context,
```

```
*UpdateLicensePoolRequest) (*LicensePool, error) {
 return nil, status.Errorf(codes.Unimplemented, "method UpdateLicensePool not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Assign(context.Context, *AssignRequest)
 (*AssignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Assign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) Unassign(context.Context, *UnassignRequest)
(*UnassignResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method Unassign not implemented")
}
func (*UnimplementedLicenseManagementServiceServer) EnumerateLicensedUsers(context.Context,
*EnumerateLicensedUsersRequest) (*EnumerateLicensedUsersResponse, error) {
 return nil, status.Errorf(codes.Unimplemented, "method EnumerateLicensedUsers not implemented")
}

func RegisterLicenseManagementServiceServer(s *grpc.Server, srv LicenseManagementServiceServer) {
 s.RegisterService(&_LicenseManagementService_serviceDesc, srv)
}

func _LicenseManagementService_GetLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(GetLicensePoolRequest)
 if err := dec(in);
 err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/GetLicensePool",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).GetLicensePool(ctx, req.(*GetLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_UpdateLicensePool_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(UpdateLicensePoolRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, in)
```

```
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/UpdateLicensePool",
 }
 handler
 := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).UpdateLicensePool(ctx, req.(*UpdateLicensePoolRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Assign_Handler(srv interface{}, ctx context.Context, dec func(interface{})
error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(AssignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Assign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Assign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Assign(ctx, req.(*AssignRequest))
 }
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_Unassign_Handler(srv
 interface{}, ctx context.Context, dec func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{},
error) {
 in := new(UnassignRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if interceptor == nil {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod: "/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/Unassign",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).Unassign(ctx, req.(*UnassignRequest))
 }
```

```
 return interceptor(ctx, in, info, handler)
}

func _LicenseManagementService_EnumerateLicensedUsers_Handler(srv interface{}, ctx context.Context, dec
func(interface{}) error, interceptor grpc.UnaryServerInterceptor) (interface{}, error) {
 in := new(EnumerateLicensedUsersRequest)
 if err := dec(in); err != nil {
  return nil, err
 }
 if
 interceptor == nil {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx, in)
 }
 info := &grpc.UnaryServerInfo{
  Server:     srv,
  FullMethod:
"/google.cloud.commerce.consumer.procurement.v1.LicenseManagementService/EnumerateLicensedUsers",
 }
 handler := func(ctx context.Context, req interface{}) (interface{}, error) {
  return srv.(LicenseManagementServiceServer).EnumerateLicensedUsers(ctx,
req.(*EnumerateLicensedUsersRequest))
 }
 return interceptor(ctx, in, info, handler)
}

var _LicenseManagementService_serviceDesc = grpc.ServiceDesc{
 ServiceName: "google.cloud.commerce.consumer.procurement.v1.LicenseManagementService",
 HandlerType: (*LicenseManagementServiceServer)(nil),
 Methods: []grpc.MethodDesc{
  {
   MethodName: "GetLicensePool",
   Handler:    _LicenseManagementService_GetLicensePool_Handler,
  },
  {
   MethodName: "UpdateLicensePool",
   Handler:    _LicenseManagementService_UpdateLicensePool_Handler,
  },
  {
   MethodName: "Assign",
   Handler:
    _LicenseManagementService_Assign_Handler,
  },
  {
   MethodName: "Unassign",
   Handler:    _LicenseManagementService_Unassign_Handler,
  },
  {
   MethodName: "EnumerateLicensedUsers",
```

```
  Handler:    _LicenseManagementService_EnumerateLicensedUsers_Handler,
 },
},
Streams:  []grpc.StreamDesc{},
Metadata: "google/cloud/commerce/consumer/procurement/v1/license_management_service.proto",
}
```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "log/slog"
 "net/http"
```

```
 "net/url"
 "time"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get               []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
  Get: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
   gax.WithRetry(func() gax.Retryer {
    return gax.OnHTTPCodes(gax.Backoff{
     Initial:    100 * time.Millisecond,
     Max:        60000 * time.Millisecond,
     Multiplier: 1.30,
    },
     http.StatusGatewayTimeout,
     http.StatusServiceUnavailable)
   }),
  },
  TestIamPermissions: []gax.CallOption{
   gax.WithTimeout(600000 * time.Millisecond),
  },
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close()
 error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
```

```
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx,
```

```
 req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* headers to be sent with each request.
 xGoogHeaders []string

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions

 logger *slog.Logger
}

// NewLicenseCodesRESTClient
 creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
  return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
  endpoint:    endpoint,
  httpClient:  httpClient,
  CallOptions: &callOpts,
  logger:      internaloption.GetLogger(opts),
 }
 c.setGoogleClientInfo()
```

```
 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
  internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
  internaloption.WithDefaultEndpointTemplate("https://compute.UNIVERSE_DOMAIN"),
  internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
  internaloption.WithDefaultUniverseDomain("googleapis.com"),
  internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
  internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  internaloption.EnableNewAuthLibrary(),
 }
}

//
 setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", gax.GoVersion}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogHeaders = []string{
  "x-goog-api-client", gax.XGoogHeader(kv...),
 }
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection
 returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
```

```
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode()))}

 hds
 = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type", "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, nil, "Get")
  if err != nil {
   return err
  }

  if err := unm.Unmarshal(buf, resp); err != nil {
   return err
  }

  return nil
 }, opts...)
 if e != nil {
  return nil, e
 }
 return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified
```

resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
  return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
  return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 hds := []string{"x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))}

 hds = append(c.xGoogHeaders, hds...)
 hds = append(hds, "Content-Type",
 "application/json")
 headers := gax.BuildHeaders(ctx, hds...)
 opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
tIamPermissions)], opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.TestPermissionsResponse{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
  if settings.Path != "" {
   baseUrl.Path = settings.Path
  }
  httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
  if err != nil {
   return err
  }
  httpReq = httpReq.WithContext(ctx)
  httpReq.Header = headers

  buf, err := executeHTTPRequest(ctx, c.httpClient, httpReq, c.logger, jsonReq, "TestIamPermissions")
  if err != nil {
   return err
  }
```

```
 if err := unm.Unmarshal(buf, resp); err != nil {
  return err
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}
```

1.5178 github.com/zmap/zlint/v3 3.6.5

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1.5179 github.com/zmap/zcrypto 0.0.0-20241218205341-e47c4f4da3a4

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1.5180 github.com/landlock-lsm/go-landlock 0.0.0-20241014143150-479ddab4c04c

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1.5182 prometheus-operator-prometheus-operator 0.84.0

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1.5183 github.com/pjbgf/sha1cd 0.4.0

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1.5184 github.com/hetznercloud/hcloud-go/v2 2.21.1

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1.5185 github.com/ionos-cloud/sdk-go/v6 6.3.4

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1.5186 github.com/azure/azure-sdk-for-go/sdk/azidentity 1.10.1

1.5186.1 Available under license :

GetLicense
Initialize stack step
spanInitializeStart
InterceptExecution

RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
InterceptBeforeSerialization
OperationSerializer
InterceptAfterSerialization
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
InterceptBeforeRetryLoop
Retry
InterceptAttempt
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
InterceptBeforeSigning
Signing
InterceptAfterSigning
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
InterceptAfterDeserialization
OperationDeserializer
InterceptBeforeDeserialization
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
InterceptTransmit

```
name: License Scan

on: [pull_request]

jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
```

```
    # compare
    - name: License test
      run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 //
 This member is required.
 ClientToken *string
```

```
// Configuration for consumption of the license. Choose a provisional
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

// Tags to add to the license. For more information about tagging support in
```

```
 // License Manager, see the [TagResource]operation.
 //
 // [TagResource]: https://docs.aws.amazon.com/license-manager/latest/APIReference/API_TagResource.html
 Tags []types.Tag

 noSmithyDocumentSerde
}

type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
```

```
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err
= addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return
 err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addInterceptAttempt(stack, options); err != nil {
  return err
 }
 if err = addInterceptExecution(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeSerialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterSerialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptTransmit(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeDeserialization(stack, options); err != nil {
  return err
 }
```

```
 if err = addInterceptAfterDeserialization(stack, options); err != nil {
  return
 err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CreateLicense",
 }
}
CheckoutBorrowLicense
 Initialize stack step
  spanInitializeStart
  InterceptExecution
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  InterceptBeforeSerialization
  OperationSerializer
  InterceptAfterSerialization
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
```

RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
InterceptBeforeRetryLoop
Retry
InterceptAttempt
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
InterceptBeforeSigning
Signing
InterceptAfterSigning
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
InterceptAfterDeserialization
OperationDeserializer
InterceptBeforeDeserialization
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
InterceptTransmit
ListReceivedLicenses
Initialize stack step
spanInitializeStart
InterceptExecution
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
InterceptBeforeSerialization
OperationSerializer
InterceptAfterSerialization
Build stack step
ClientRequestID
ComputeContentLength

SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
InterceptBeforeRetryLoop
Retry
InterceptAttempt
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
InterceptBeforeSigning
Signing
InterceptAfterSigning
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
InterceptAfterDeserialization
OperationDeserializer
InterceptBeforeDeserialization
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
InterceptTransmit
CheckoutLicense
Initialize stack step
spanInitializeStart
InterceptExecution
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
InterceptBeforeSerialization
OperationSerializer

```
 InterceptAfterSerialization
Build stack step
 ClientRequestID
 ComputeContentLength
 SetCredentialSourceMiddleware
 UserAgent
 AddTimeOffsetMiddleware
 RecursionDetection
 spanBuildRequestEnd
Finalize stack step
 spanRetryLoop
 InterceptBeforeRetryLoop
 Retry
 InterceptAttempt
 RetryMetricsHeader
 ResolveAuthScheme
 GetIdentity
 ResolveEndpointV2
 disableHTTPS
 ComputePayloadHash
 setLegacyContextSigningOptions
 InterceptBeforeSigning
 Signing
 InterceptAfterSigning
Deserialize stack step
 AddRawResponseToMetadata
 ErrorCloseResponseBody
 CloseResponseBody
 ResponseErrorWrapper
 RequestIDRetriever
 InterceptAfterDeserialization
 OperationDeserializer
 InterceptBeforeDeserialization
 AddTimeOffsetMiddleware
 RecordResponseTiming
 RequestResponseLogger
 InterceptTransmit
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
```

```
)

// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
   - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}
```

```
type ListReceivedLicensesOutput struct {

 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
```

```
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err =
addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
```

```
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return
err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
 return err
}
if err = addInterceptAttempt(stack, options); err != nil {
 return err
}
if err = addInterceptExecution(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSigning(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSigning(stack, options); err != nil {
 return err
}
if err = addInterceptTransmit(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeDeserialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterDeserialization(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if
err = addSpanInitializeEnd(stack); err != nil {
 return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
 return err
}
```

```
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
DeleteLicense
 Initialize stack step
  spanInitializeStart
  InterceptExecution
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  InterceptBeforeSerialization
  OperationSerializer
  InterceptAfterSerialization
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  InterceptBeforeRetryLoop
  Retry
  InterceptAttempt
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
```

```
  ComputePayloadHash
  setLegacyContextSigningOptions
  InterceptBeforeSigning
  Signing
  InterceptAfterSigning
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  InterceptAfterDeserialization
  OperationDeserializer
  InterceptBeforeDeserialization
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
  InterceptTransmit
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
 //
 //   - ProductSKU
 //
 //   - Fingerprint
 //
 //   - Status
 Filters
 []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
```

```
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack,
options, "ListLicenses"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
```

```
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeRetryLoop(stack,
options); err != nil {
 return err
}
if err = addInterceptAttempt(stack, options); err != nil {
 return err
}
if err = addInterceptExecution(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSerialization(stack, options); err != nil {
 return err
```

```
 }
 if err = addInterceptBeforeSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptTransmit(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeDeserialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterDeserialization(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if
 err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "ListLicenses",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
          "type": "structure",
          "members": {
              "message": {
                  "target": "smithy.api#String"
              }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
        "type": "structure",
        "members": {
            "DirectoryId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Directory",
                "traits": {
                    "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
                }
            },
            "ActiveDirectorySettings":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>ActiveDirectorySettings</code> resource contains
details about the Active Directory, including network access details such as domain name and IP addresses, and the
credential provider for user administration.</p>"
                }
            },
            "ActiveDirectoryType": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType",
                "traits": {
                    "smithy.api#documentation": "<p>The type of Active Directory  either a self-managed Active
Directory or an Amazon Web Services Managed Active Directory.</p>"
                }
            },
            "IsSharedActiveDirectory": {
                "target": "smithy.api#Boolean",
                "traits": {

        "smithy.api#documentation": "<p>Whether this directory is shared from an Amazon Web Services Managed
Active Directory. The default value is false.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about an Active Directory identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings": {
        "type": "structure",
        "members": {
            "DomainName": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name for the Active Directory. "
}
},
"DomainIpv4List": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IpV4List",
"traits": {
"smithy.api#documentation": " A list of domain IPv4
addresses that are used for the Active Directory. ",
"smithy.api#length": {
"min": 1,
"max": 2
}
}
},
"DomainCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " Points to the <code>CredentialsProvider</code> resource that
contains information about the credential provider for user administration. "
}
},
"DomainNetworkSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings",
"traits": {
"smithy.api#documentation": " The <code>DomainNetworkSettings</code> resource contains an
array of subnets that apply for the Active
Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains network access and credential details that are needed for user
administration in the Active Directory. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "SELF_MANAGED",
"value": "SELF_MANAGED",
"documentation": "SELF_MANAGED type of Active Directory"
},
{
"name": "AWS_MANAGED",

"value": "AWS_MANAGED",
"documentation": "AWS_MANAGED type of Active Directory"
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#Arn":
{
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48

hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing.
For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/AssociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider. ",
"smithy.api#required": {}
}
},
"InstanceId": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The ID of the EC2 instance that provides the user-based subscription. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider for the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to associate. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",

"traits": {
"smithy.api#documentation": " The tags that apply for the user association. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {

"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the resource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse"

```
        },
        "errors": [
            {

  "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation":
"<p>Creates a network endpoint for the Remote Desktop Services (RDS) license server.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/license-server/CreateLicenseServerEndpoint"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest": {
        "type": "structure",
        "members": {
            "IdentityProviderArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the
<code>IdentityProvider</code> resource that contains details about a registered identity provider. In the case of
Active Directory, that can be a self-managed Active Directory or an Amazon Web Services Managed Active
 Directory that contains user identity details.</p>",
                    "smithy.api#required": {}
                }
```

```
            },
            "LicenseServerSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>LicenseServerSettings</code> resource to create for
the endpoint. The settings include the type of license server and the Secrets Manager secret that enables
administrators to add or remove users associated with the license server.</p>",
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The tags that apply for the license server endpoint.</p>"
                }

            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the identity provider
specified in the request.</p>"
                }
            },
            "LicenseServerEndpointArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The ARN of the <code>LicenseServerEndpoint</code>
resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output":
 {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider": {
        "type": "union",
        "members": {
```

"SecretsManagerCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider",
"traits": {
"smithy.api#documentation": " Identifies the Secrets Manager secret that contains credentials needed for user administration in the Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains information about the credential provider for user administration. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deletes a <code>LicenseServerEndpoint</code> resource. ",
"smithy.api#http": {
"code": 200,

"method": "POST",
"uri": "/license-server/DeleteLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the <code>LicenseServerEndpoint</code> resource to delete. ",
"smithy.api#required": {}
}
},
"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of License Server that the delete request refers to. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"LicenseServerEndpoint": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint",
"traits": {
"smithy.api#documentation": " Shows details from the <code>LicenseServerEndpoint</code> resource that was deleted. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Deregisters the Active Directory identity provider from License Manager user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the Active Directory identity provider. "

```
            }
        },
        "Product": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p> <p>Valid
values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code>
 </p>"
            }
        },
        "IdentityProviderArn": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
            "traits": {
                "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the identity
provider to deregister.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
    "type": "structure",
    "members": {
        "IdentityProviderSummary": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
            "traits": {
                "smithy.api#documentation": "<p>Metadata that describes the results of an identity provider
operation.</p>",

  "smithy.api#required": {}
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#Directory": {
    "type": "string",
    "traits": {
        "smithy.api#pattern": "^(d|sd)-[0-9a-f]{10}$"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
    "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,

"method": "POST",
"uri": "/user/DisassociateUser"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the Active Directory identity provider for the

user. "
}
},
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance which provides user-based subscriptions. "
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the Active Directory identity provider. "
}
},
"InstanceUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the user to disassociate from the EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to disassociate. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " Contains a list of subnets that apply for the Active Directory domain. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Contains network settings for the Active Directory domain. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a describe or list operation. You can use filters can be used to match a set of resources by specific criteria, such

as tags, attributes, or IDs. "
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#FilterList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
        "type": "union",
        "members": {
            "ActiveDirectoryIdentityProvider":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
                "traits": {
                    "smithy.api#documentation": " The <code>ActiveDirectoryIdentityProvider</code> resource
contains settings and other details about a specific Active Directory identity provider. "
                }
            }
        },
        "traits": {
            "smithy.api#documentation": " Refers to an identity provider. "
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": " The <code>IdentityProvider</code> resource contains information
 about an identity provider. ",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": " The <code>Settings</code> resource contains details about the
registered identity providers product related configuration settings, such as the subnets to provision VPC
endpoints. ",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {

"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the identity provider. ",
"smithy.api#required": {}
}
},
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider. "
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
},
"OwnerAccountId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AWS
Account ID of the owner of this resource. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the EC2 instance, which provides user-based

subscriptions. ",
"smithy.api#required": {}
}
},
"Status": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of an EC2 instance resource. ",
"smithy.api#required": {}
}
},
"Products": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
"traits": {
"smithy.api#documentation": " A list of provided user-based subscription products. ",
"smithy.api#required": {}
}
},
"LastStatusCheckDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date of the last status check. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The status message for an EC2 instance. "
}
},
"OwnerAccountId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AWS Account ID of the owner of this resource. "
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>IdentityProvider</code> resource specifies details
about the identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes an EC2 instance providing user-based subscriptions. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance that provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },

            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>IdentityProvider</code> resource specifies details
about the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) that identifies the instance
user.</p>"
```

```
            }
        },
        "StatusMessage": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The status message for users of an EC2 instance.</p>"
            }
        },
        "Domain": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The domain name of the Active Directory that contains the user
information for the product subscription.</p>"
            }
        },
        "AssociationDate": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The date a user was associated with an EC2 instance.</p>"
            }
        },
        "DisassociationDate": {
            "target": "smithy.api#String",

            "traits": {
                "smithy.api#documentation": "<p>The date a user was disassociated from an EC2 instance.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>Describes users of an EC2 instance providing user-based
subscriptions.</p>"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
    "type": "structure",
    "members": {
        "message": {
            "target": "smithy.api#String"
        }
    },
    "traits": {
```

"smithy.api#documentation": " An exception occurred with the service. ",
"smithy.api#error": "server",
"smithy.api#httpError": 500
}
},
"com.amazonaws.licensemanagerusersubscriptions#IpV4": {
"type": "string",
"traits": {
"smithy.api#pattern": "^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IpV4List": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IpV4"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#TagResource"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UntagResource"
            },
            {

"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
            }
        ],
        "traits": {
            "aws.api#service": {
                "sdkId": "License Manager User Subscriptions",
                "arnNamespace": "license-manager-user-subscriptions",
                "cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
            },
            "aws.auth#sigv4": {
                "name": "license-manager-user-subscriptions"
            },
            "aws.protocols#restJson1": {},
            "smithy.api#cors": {
                "additionalAllowedHeaders": [
                    "*",
                    "content-type",
                    "x-amz-content-sha256",
                    "x-amz-user-agent",
                    "x-amzn-platform-id",
                    "x-amzn-trace-id",
                    "content-length",
```

"x-api-key",
"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},
"Endpoint": {
"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"

```
    }
},
"rules": [
    {
        "conditions": [
            {
                "fn": "isSet",
                "argv": [
                    {
                        "ref": "Endpoint"
                    }
                ]
            }

  ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseFIPS"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
                "type": "error"
            },
            {
                "conditions": [
                    {

                 "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }
                ],
                "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                "type": "error"
            },
            {
```

```
                "conditions": [],
                "endpoint": {
                  "url": {
                    "ref": "Endpoint"
                  },

"properties": {},
                  "headers": {}
                },
                "type": "endpoint"
              }
            ],
            "type": "tree"
          },
          {
            "conditions": [
              {
                "fn": "isSet",
                "argv": [
                  {
                    "ref": "Region"
                  }
                ]
              }
            ],
            "rules": [
              {
                "conditions": [
                  {
                    "fn": "aws.partition",

                "argv": [
                      {
                        "ref": "Region"
                      }
                    ],
                    "assign": "PartitionResult"
                  }
                ],
                "rules": [
                  {
                    "conditions": [
                      {
                        "fn": "booleanEquals",
                        "argv": [
                          {
                            "ref": "UseFIPS"
                          },
```

```
                true
            ]
        },
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {
                    "fn":
"booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        }
                    ]
                },

{
                    "fn": "booleanEquals",
                    "argv": [
                        true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsDualStack"
                            ]
                        }
```

```
                ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ],
                 "type": "tree"
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or
both",
                "type": "error"
            }
        ],
        "type": "tree"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {

                      "ref": "UseFIPS"
                    },
                    true
                ]
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "fn": "getAttr",
                                "argv": [
```

```
{
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        },
                        true
                    ]
                }
            ],
            "rules": [
                {
                    "conditions": [],
                    "endpoint": {

"url": "https://license-manager-user-subscriptions-fips.{Region}.{PartitionResult#dnsSuffix}",
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ],
            "type": "tree"
        },
        {
            "conditions": [],
            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
        }
    ],
    "type": "tree"
},
{
    "conditions": [
        {
            "fn": "booleanEquals",
            "argv": [
                {
                    "ref": "UseDualStack"
                },
                true
            ]
        }
    ],
    "rules": [
        {
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"conditions": [
{
"fn": "booleanEquals",
"argv": [
true,
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsDualStack"
]

}
]
}
],
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
"properties": {},
"headers": {}
},
"type": "endpoint"
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],
"type": "tree"
},
{
"conditions": [],
"error": "DualStack is enabled but this partition does not support DualStack",
"type": "error"
}
],
"type": "tree"
},
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-user-subscriptions.{Region}.{PartitionResult#dnsSuffix}",

"properties": {},
"headers": {}
},
"type": "endpoint"
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],
"type": "tree"
}
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"type": "tree"
},
{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
}
]
},
"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {

"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",

"UseFIPS": true,
"UseDualStack": false
}
},

{
"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {

"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,

"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {

"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,

"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",

"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack":
false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid
Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,

"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServer": {
"type": "structure",
"members": {
"ProvisioningStatus": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
"traits": {
"smithy.api#documentation": " The current state of the provisioning process for the RDS license server. "
}
},
"HealthStatus": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus",
"traits": {
"smithy.api#documentation": " The health status of the RDS license server. "
}
},
"Ipv4Address": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A list of domain IPv4 addresses that are used for the RDS license server. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a Remote Desktop Services (RDS) license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint": {
"type": "structure",
"members": {

"IdentityProviderArn": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider that's associated with the RDS license server endpoint. "
}
},
"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of license server. "
}
},
"ServerEndpoint": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint",
"traits": {
"smithy.api#documentation": " The <code>ServerEndpoint</code> resource contains the network address of the RDS license server endpoint. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation":
" The message associated with the provisioning status, if there is one. "
}
},
"LicenseServerEndpointId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId",
"traits": {
"smithy.api#documentation": " The ID of the license server endpoint. "
}
},
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The ARN of the <code>ServerEndpoint</code> resource for the RDS license server. "
}
},
"LicenseServerEndpointProvisioningStatus": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",

"traits": {
"smithy.api#documentation": " The current state of the provisioning process for the RDS license server endpoint "

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                }
            },
            "LicenseServers": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of <code>LicenseServer</code> resources that represent
the license servers that are accessed through this endpoint.</p>"
                }
            },
            "CreationTime": {
                "target": "smithy.api#Timestamp",
                "traits": {
                    "smithy.api#documentation": "<p>The timestamp when License Manager created the license server
endpoint.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Contains details about a network
 endpoint for a Remote Desktop Services (RDS) license server.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId": {
        "type": "string"
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "PROVISIONING",
                    "value": "PROVISIONING",
                    "documentation": ""
                },
                {
                    "name": "PROVISIONING_FAILED",
                    "value": "PROVISIONING_FAILED",

    "documentation": ""
                },
                {
                    "name": "PROVISIONED",
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"value": "PROVISIONED",
"documentation": ""
},
{
"name": "DELETING",
"value": "DELETING",
"documentation": ""
},
{
"name": "DELETION_FAILED",
"value": "DELETION_FAILED",
"documentation": ""
},
{
"name": "DELETED",
"value": "DELETED",
"documentation": ""
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus": {
"type": "string",
"traits": {
"smithy.api#enum": [

{
"name": "HEALTHY",
"value": "HEALTHY",
"documentation": ""
},
{
"name": "UNHEALTHY",
"value": "UNHEALTHY",
"documentation": ""
},
{
"name": "NOT_APPLICABLE",
"value": "NOT_APPLICABLE",
"documentation": ""
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServer"

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            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings": {
            "type": "structure",
            "members": {
                "ServerType": {

                    "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
                    "traits": {
                        "smithy.api#documentation": "<p>The type of license server.</p>",
                        "smithy.api#required": {}
                    }
                },
                "ServerSettings": {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ServerSettings",
                    "traits": {
                        "smithy.api#documentation": "<p>The <code>ServerSettings</code> resource contains the settings
for your server.</p>",
                        "smithy.api#required": {}
                    }
                }
            },
            "traits": {
                "smithy.api#documentation": "<p>The settings to configure your license server.</p>"
            }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
            "type": "operation",
            "input": {

              "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
            },
            "errors": [
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
                },
                {
                    "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
                },
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{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Active Directory identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: <ul> Product   DirectoryId "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken from a previously truncated
response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse": {
"type": "structure",
"members": {
"IdentityProviderSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
"traits": {
"smithy.api#documentation": " An array of <code>IdentityProviderSummary</code> resources that contain details about the Active Directory identity providers that meet the request criteria. ",
"smithy.api#required": {}
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated
responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"

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        },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
          },
          {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
          }
        ],
        "traits": {
          "smithy.api#documentation": "<p>Lists the EC2 instances providing user-based subscriptions.</p>",
          "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/instance/ListInstances"
          },
          "smithy.api#paginated": {
            "inputToken": "NextToken",
            "outputToken": "NextToken",
            "pageSize": "MaxResults",
            "items": "InstanceSummaries"
          }
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
        "type": "structure",
        "members": {
          "MaxResults": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
            "traits": {
              "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the
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nextToken from a previously truncated response. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: <ul> Status   InstanceId "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
"type": "structure",
"members": {
"InstanceSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
"traits": {
"smithy.api#documentation": " An array of <code>InstanceSummary</code> resources that contain
details about the instances that provide user-based subscriptions and also meet the request criteria. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest"
},
"output": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {

"smithy.api#documentation": " List the Remote Desktop Services (RDS) License Server endpoints ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/ListLicenseServerEndpoints"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "LicenseServerEndpoints"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. ",
"smithy.api#range": {
"min": 1,
"max": 100
}

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            }
        },
        "Filters": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
            "traits": {
                "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p> <ul>
<li> <p>IdentityProviderArn</p> </li> </ul>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken
from a previously truncated response.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#input": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse":
{
    "type": "structure",
    "members": {
        "LicenseServerEndpoints": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList",
            "traits": {
                "smithy.api#documentation": "<p>An array of <code>LicenseServerEndpoint</code> resources that
contain detailed information about the RDS License Servers that meet the request criteria.</p>"
            }
        },
        "NextToken": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't
empty, there are additional elements that the service hasn't included in this request. Use this token with the next
request to retrieve additional objects.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#output": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
    "type": "operation",
    "input": {
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"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity
provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken":
"NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
"type": "structure",

"members": {
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: <ul> Status   Username   Domain "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",

"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty,
there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Returns the list of tags for the specified resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest": {

"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve. ",
"smithy.api#httpLabel": {},

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags for the specified resource. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target":
"com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists user associations for an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListUserAssociations"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceUserSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
"type": "structure",
"members": {
"InstanceId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation":
" The ID of the EC2 instance, which provides user-based subscriptions. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}

```
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",

          "traits": {
                    "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p> <ul>
<li> <p>Status</p> </li> <li> <p>Username</p> </li> <li> <p>Domain</p> </li> </ul>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken
from a previously truncated response.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
        "type": "structure",
        "members": {
            "InstanceUserSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",

    "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the list user association operation.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't
empty, there are additional elements that the service hasn't included in this request. Use this token with the next
request to retrieve additional objects.</p>"
                }
            }
        },
        "traits": {
```

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation":
" The user name from the identity provider for this product user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The status of a product for this user. ",
"smithy.api#required": {}
}
},
"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for this product user. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for this user. "
}
},

"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user information
for the product subscription. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " A summary of the user-based subscription products for a specific user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings": {
"type": "structure",
"members": {
"RdsSalCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " The <code>CredentialsProvider</code> resource contains a reference to the credentials provider that's used for RDS license server user administration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Server settings that are specific to a Remote Desktop Services (RDS) license server. "
}

```
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
    "type": "operation",
    "input": {

  "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
    },
    "output": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
    },
    "errors": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
        },
        {

          "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
        }
    ],
    "traits": {
        "smithy.api#documentation": "<p>Registers an identity provider for user-based subscriptions.</p>",
        "smithy.api#http": {
            "code": 200,
            "method": "POST",
            "uri": "/identity-provider/RegisterIdentityProvider"
        },
        "smithy.api#idempotent": {}
    }
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
    "type": "structure",
    "members": {
        "IdentityProvider": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {

"smithy.api#documentation": " An object that specifies details for the identity provider to register. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> ",
"smithy.api#required": {}
}
},
"Settings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings such as the subnets
to provision VPC endpoints. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the identity provider's registration. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}

}
}
},

"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider": {
"type": "structure",
"members": {
"SecretId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the Secrets Manager secret that contains credentials. ",
"smithy.api#length": {
"min": 1
}
}
}
},
"traits": {
"smithy.api#documentation": " Contains a credentials secret that's stored in Secrets Manager. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 5,

"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"

}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint": {
"type": "structure",
"members": {
"Endpoint": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The network address of the endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " A network endpoint through which you can access one or more servers. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerSettings": {
"type": "union",
"members": {
"RdsSalSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings",
"traits": {
"smithy.api#documentation": " The <code>RdsSalSettings</code> resource contains settings to configure
a specific Remote Desktop Services (RDS) license server. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains settings for a specific server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "RDS_SAL",
"value": "RDS_SAL",
"documentation": ""
}
]
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
        "type": "structure",
        "members": {
            "message": {
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The request failed because a
 service quota is exceeded.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Settings": {
        "type": "structure",
        "members": {
            "Subnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The subnets defined for the registered identity provider.</p>",
                    "smithy.api#length": {
                        "min": 1
                    },
                    "smithy.api#required": {}
                }
            },
            "SecurityGroupId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
                "traits": {
                    "smithy.api#documentation": "<p>A security group ID that allows inbound TCP port 1688
communication between resources
 in your VPC and the VPC endpoint for activation servers.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The registered identity providers product related configuration settings
such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC
endpoints. The security group should permit inbound TCP port 1688 communication from resources in the
VPC.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
```

```
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
        },
        "errors": [

    {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {

        "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p> <note> <p>Your estimated bill for charges on the number of users and related costs will take 48 hours
to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status) in Amazon Web Services
Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your monthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p> </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
```

"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user for whom to start the product subscription. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the product subscription. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse": {
"type": "structure",
"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription

operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the
specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>"
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>"
                }
            },

        "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p> <p>Valid
values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
                }
            },
            "ProductUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the product user.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name of the Active Directory that contains the user for
whom to stop the product
 subscription.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
```

"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StringList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},

"com.amazonaws.licensemanagerusersubscriptions#Subnet": {
"type": "string",
"traits": {
"smithy.api#pattern": "^subnet-[a-z0-9]{8,17}"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Subnets": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagKeyList": {
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResource": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Adds tags to a resource. ",
"smithy.api#http": {
"method": "PUT",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest":
{
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource that you want
to tag. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags to apply to the specified resource. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse":
{
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#Tags": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied
because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Removes tags from a resource.</p>",
            "smithy.api#http": {
                "method": "DELETE",
                 "uri": "/tags/{ResourceArn}"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource that you want
to remove tags from.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            },
            "TagKeys": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#TagKeyList",
                "traits": {
                    "smithy.api#documentation": "<p>The tag keys to remove from the resource.</p>",

    "smithy.api#httpQuery": "tagKeys",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
```

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
             },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Updates additional product configuration settings for the registered
identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/identity-provider/UpdateIdentityProviderSettings"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest":
 {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider"
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p> <p>Valid
values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
                }
```

```
            },
            "IdentityProviderArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the identity provider to
update.</p>"
                }
            },

    "UpdateSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
                "traits": {
                    "smithy.api#documentation": "<p>Updates the registered identity providers product related
configuration settings. You can update any combination of settings in a single operation such as the:</p> <ul> <li>
<p>Subnets which you want to add to provision VPC endpoints.</p> </li> <li> <p>Subnets which you want to
remove the VPC endpoints from.</p> </li> <li> <p>Security group ID which permits traffic to the VPC
endpoints.</p> </li> </ul>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary":
 {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
                "traits": {
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
        "type": "structure",
        "members": {
            "AddSubnets": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of one or more subnets in which License Manager will
create a VPC endpoint for products that require connectivity to activation servers.</p>",
```

"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {

"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}
}
}
DisassociateLicense
Initialize stack step
spanInitializeStart
InterceptExecution
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step

```
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  InterceptBeforeSerialization
  OperationSerializer
  InterceptAfterSerialization
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  InterceptBeforeRetryLoop
  Retry
  InterceptAttempt
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  InterceptBeforeSigning
  Signing
  InterceptAfterSigning
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  InterceptAfterDeserialization
  OperationDeserializer
  InterceptBeforeDeserialization
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
  InterceptTransmit
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
```

```
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}

type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription
```

```
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
 err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
```

```
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options);
```

```
err != nil {
 return err
}
if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
 return err
}
if err = addInterceptAttempt(stack, options); err != nil {
 return err
}
if err = addInterceptExecution(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSigning(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSigning(stack, options); err != nil {
 return err
}
if err = addInterceptTransmit(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeDeserialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterDeserialization(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if err = addSpanInitializeEnd(stack); err != nil {
 return err
}
if
err = addSpanBuildRequestStart(stack); err != nil {
 return err
}
if err = addSpanBuildRequestEnd(stack); err != nil {
 return err
}
return nil
}
```

```
func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
```

```
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err
 != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options);
 err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
```

```
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
 return err
}
if err = addInterceptAttempt(stack, options); err != nil {
 return err
}
if err = addInterceptExecution(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSerialization(stack,
options); err != nil {
 return err
}
if err = addInterceptAfterSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSigning(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSigning(stack, options); err != nil {
 return err
}
if err = addInterceptTransmit(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeDeserialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterDeserialization(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if err = addSpanInitializeEnd(stack); err != nil {
 return err
```

```
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:
       region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
```

```
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn
 *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
```

```
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack,
c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
```

```
 }
 if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addInterceptAttempt(stack, options); err != nil {
  return err
 }
 if err = addInterceptExecution(stack,
 options); err != nil {
  return err
 }
 if err = addInterceptBeforeSerialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterSerialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptTransmit(stack, options); err != nil {
  return err
 }
```

```
 if err = addInterceptBeforeDeserialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterDeserialization(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
```

AWS SDK for Go

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```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
```

```
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
 // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string
```

```
 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
```

```
 return
err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
```

```
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options);
err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
 return err
}
if err = addInterceptAttempt(stack, options); err != nil {
 return err
}
if err = addInterceptExecution(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSerialization(stack, options); err != nil {
 return err
```

```
 }
 if err = addInterceptBeforeSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptTransmit(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeDeserialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterDeserialization(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return
 err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
```

```
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
```

```
Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
 struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
```

```
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack,
 c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
```

```
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
 return err
}
if err = addInterceptAttempt(stack, options); err != nil {
 return err
}
if err = addInterceptExecution(stack,
options); err != nil {
 return err
}
if err = addInterceptBeforeSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSigning(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSigning(stack, options); err != nil {
 return err
}
if err = addInterceptTransmit(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeDeserialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterDeserialization(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
```

```
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
```

```
}

if err = addlegacyEndpointContextSetter(stack, options); err !=
nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err
!= nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
```

```
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addCredentialSource(stack, options); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addInterceptAttempt(stack, options); err !=
 nil {
  return err
 }
 if err = addInterceptExecution(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeSerialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterSerialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeSigning(stack, options); err != nil {
  return err
 }
```

```
 if err = addInterceptAfterSigning(stack, options); err != nil {
  return err
 }
 if err = addInterceptTransmit(stack, options); err != nil {
  return err
 }
 if err = addInterceptBeforeDeserialization(stack, options); err != nil {
  return err
 }
 if err = addInterceptAfterDeserialization(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region
 string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
}
CheckInLicense
 Initialize stack step
  spanInitializeStart
  InterceptExecution
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
```

InterceptBeforeSerialization
OperationSerializer
InterceptAfterSerialization
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
InterceptBeforeRetryLoop
Retry
InterceptAttempt
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
InterceptBeforeSigning
Signing
InterceptAfterSigning
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
InterceptAfterDeserialization
OperationDeserializer
InterceptBeforeDeserialization
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
InterceptTransmit

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SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE
OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
// Code generated by smithy-go-codegen DO NOT EDIT.

```
package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}
```

```
type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if
```

```
err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if
err = addCredentialSource(stack, options); err != nil {
 return err
}
if err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
```

```
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeRetryLoop(stack, options); err != nil {
 return err
}
if err = addInterceptAttempt(stack, options); err != nil {
 return err
}
if err = addInterceptExecution(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSerialization(stack, options); err !=
nil {
 return err
}
if err = addInterceptAfterSerialization(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeSigning(stack, options); err != nil {
 return err
}
if err = addInterceptAfterSigning(stack, options); err != nil {
 return err
}
if err = addInterceptTransmit(stack, options); err != nil {
 return err
}
if err = addInterceptBeforeDeserialization(stack, options); err != nil {
 return err
}
if err = addInterceptAfterDeserialization(stack, options); err != nil {
 return err
}
```

```
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:
     ServiceID,
  OperationName: "CheckInLicense",
 }
}
CreateLicense
 Initialize stack step
  spanInitializeStart
  InterceptExecution
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  InterceptBeforeSerialization
  OperationSerializer
  InterceptAfterSerialization
 Build stack step
  ClientRequestID
  ComputeContentLength
  SetCredentialSourceMiddleware
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
```

Finalize stack step
spanRetryLoop
InterceptBeforeRetryLoop
Retry
InterceptAttempt
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
InterceptBeforeSigning
Signing
InterceptAfterSigning
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
InterceptAfterDeserialization
OperationDeserializer
InterceptBeforeDeserialization
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
InterceptTransmit


```
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
          "type": "integer"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
          "type": "long"
      },
      "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider": {
          "type": "operation",
          "input": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest"
          },
          "output": {
              "target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse"
          },
          "errors": [
              {
                  "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
            },

    {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions \n\t\t\tregistered to your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/DeregisterSubscriptionProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                 "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the subscription provider resource to deregister.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
```

"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of name to filter by. "
}
},
"Values": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " One or more values for the name to filter by. "
}
},
"Operator": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
"traits": {
"smithy.api#documentation": " An operator for filtering results. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter object that is used to return more specific results from a describe operation.\n Filters can be used to match a set of resources by specific criteria. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Get details for a Bring Your Own License (BYOL) subscription that's
registered to your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetRegisteredSubscriptionProvider"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation":
 "<p>The Amazon Resource Name (ARN) of the BYOL registration resource to get details for.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) for the BYOL registration
resource specified in the request.</p>"
                }
            },
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
```

"traits": {
"smithy.api#documentation": " The subscription provider for the BYOL registration resource specified \n\t\t\tin the request. "
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL \n\t\t\tregistration resource specified in the request. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " The status of the Linux subscription provider access token from the last \n\t\t\tsuccessful subscription data request. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The detailed message from your subscription provider token status. "
}
},
"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time License Manager retrieved subscription details \n\t\t\tfrom your registered third-party Linux subscription provider. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
},
"errors": [

```
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions service settings for your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/GetServiceSettings"

         },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
        "type": "structure",
        "members": {}
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
        "type": "structure",
        "members": {
            "LinuxSubscriptionsDiscovery": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
                "traits": {
                    "smithy.api#documentation": "<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
                }
            },
            "LinuxSubscriptionsDiscoverySettings": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
                "traits": {
                    "smithy.api#documentation": "<p>Lists
 the settings defined for Linux subscriptions discovery. The settings include if\n      Organizations integration has
been enabled, and which Regions data will be aggregated from.</p>"
                }
            },
            "Status": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of Linux subscriptions settings being
applied.</p>"
                }
```

```
            },
            "StatusMessage": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
                "traits": {
                    "smithy.api#documentation": "<p>A message which details the Linux subscriptions service settings
current status.</p>"
                }
            },
            "HomeRegions": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                 "traits": {
                    "smithy.api#documentation": "<p>The Region in which License Manager displays the aggregated
data for Linux\n      subscriptions.</p>"
                }
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
        "type": "structure",
        "members": {
            "AmiId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The AMI ID used to launch the instance.</p>"
                }
            },
            "InstanceID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The instance ID of the resource.</p>"
                }
            },
            "InstanceType": {
                "target": "smithy.api#String",
                "traits":
 {
                    "smithy.api#documentation": "<p>The instance type of the resource.</p>"
                }
            },
            "AccountID": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The account ID which owns the instance.</p>"
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
```

"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
},
"UsageOperation": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
}
},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
},
"SubscriptionName": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the license subscription that the instance uses. "
}
},
"OsVersion": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The operating system software version that runs on your instance. "
}
},
"SubscriptionProviderCreateTime": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp when you registered
the third-party Linux subscription \n\t\t\tprovider for the subscription that the instance uses. "
}
},
"SubscriptionProviderUpdateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that the instance synced with the
registered \n\t\t\tthird-party Linux subscription provider. "
}
},
"DualSubscription": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Indicates that you have two different license subscriptions for
\n\t\t\tthe same software on your instance. "
}
},
"RegisteredWithSubscriptionProvider": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Indicates that your instance uses a BYOL license subscription from \n\t\t\ta
third-party Linux subscription provider that you've registered with License Manager. "
}
}
},
"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux
subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {

"smithy.api#documentation":
" An exception occurred with the service. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
"type": "service",
"version": "2018-05-10",
"operations": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager Linux Subscriptions",
"arnNamespace": "license-manager-linux-subscriptions",
"cloudTrailEventSource": "license-manager-linux-subscriptions.amazonaws.com"

},
"aws.auth#sigv4": {
"name": "license-manager-linux-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",
"x-amzn-trace-id"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager,
you can discover and track your commercial Linux subscriptions on running\n Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager Linux Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
},

```
        "Endpoint": {
          "builtIn": "SDK::Endpoint",
          "required": false,
          "documentation": "Override the endpoint used to send this request",
          "type": "String"
        }
      },
      "rules": [
        {
          "conditions": [
            {
              "fn": "isSet",
              "argv": [
                {
                  "ref": "Endpoint"
                }
              ]
            }
          ],
          "rules": [
            {
              "conditions": [
                {
                  "fn": "booleanEquals",
                  "argv": [
                    {
                      "ref": "UseFIPS"
                    },
                    true
                  ]
                }

],
              "error": "Invalid Configuration: FIPS and custom endpoint are not supported",
              "type": "error"
            },
            {
              "conditions": [],
              "rules": [
                {
                  "conditions": [
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        {
                          "ref": "UseDualStack"
                        },
                        true
```

```
                    ]

}
                    ],
                    "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
                    "type": "error"
                },
                {
                    "conditions": [],
                    "endpoint": {
                        "url": {
                            "ref": "Endpoint"
                        },
                        "properties": {},
                        "headers": {}
                    },
                    "type": "endpoint"
                }
            ],
            "type": "tree"

        }
        ],
        "type": "tree"
    },
    {
        "conditions": [],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "isSet",
                        "argv": [
                            {
                                "ref": "Region"
                            }
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [
                            {

        "fn": "aws.partition",
                                "argv": [
                                    {
                                        "ref": "Region"
```

```
                    }
                ],
                "assign": "PartitionResult"
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {

                      "ref": "UseFIPS"
                            },
                            true
                        ]
                    },
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "ref": "UseDualStack"
                            },
                            true
                        ]
                    }

],
                "rules": [
                    {
                        "conditions": [
                            {
                                "fn": "booleanEquals",
                                "argv": [
                                    true,
                                    {
                                        "fn": "getAttr",
                                        "argv": [
                                            {
                                                "ref": "PartitionResult"

},
                                            "supportsFIPS"
                                        ]
                                    }
                                ]
                            },
```

```
                    {
                      "fn": "booleanEquals",
                      "argv": [
                        true,
                        {
                          "fn": "getAttr",
                          "argv": [

                            {
                                "ref": "PartitionResult"
                              },
                              "supportsDualStack"
                            ]
                        }
                      ]
                    }
                  ],
                  "rules": [
                    {
                      "conditions": [],

        "rules": [
                        {
                          "conditions": [],
                          "endpoint": {
                              "url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",
                              "properties": {},
                              "headers": {}
                          },
                          "type": "endpoint"
                        }
                      ],

                "type": "tree"
                    }
                  ],
                  "type": "tree"
                },
                {
                  "conditions": [],
                  "error": "FIPS and DualStack are enabled, but this partition does not support
one or both",

                  "type": "error"
                }
              ],
              "type": "tree"
            },
```

```
{

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"rules": [
{
"conditions": [
{

"fn": "booleanEquals",
"argv": [
{
"fn": "getAttr",
"argv": [
{
"ref": "PartitionResult"
},
"supportsFIPS"
]
},
true

]
}
],
"rules": [
{
"conditions": [],
"rules": [
{
"conditions": [],
"endpoint": {
"url": "https://license-manager-linux-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",

"properties": {},
"headers": {}
},
"type": "endpoint"
```

```
                    }
                ],
                "type": "tree"
            }
        ],
        "type": "tree"
    },
    {
        "conditions": [],
        "error": "FIPS is enabled
but this partition does not support FIPS",
        "type": "error"
    }
],
"type": "tree"
},
{
"conditions": [
    {
        "fn": "booleanEquals",
        "argv": [
            {
                "ref": "UseDualStack"
            },
            true

]
    }
],
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    true,
                    {
                        "fn": "getAttr",
                        "argv": [
                            {

                                "ref": "PartitionResult"
                            },
                            "supportsDualStack"
                        ]
                    }
                ]
            }
```

```
                                    ],
                                    "rules": [
                                        {
                                            "conditions": [],
                                            "rules": [

        {
                                                "conditions": [],
                                                "endpoint": {
                                                    "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                                                    "properties": {},
                                                    "headers": {}
                                                },
                                                "type": "endpoint"
                                            }
                                            ],
                                            "type": "tree"

                        }
                                    ],
                                    "type": "tree"
                                },
                                {
                                    "conditions": [],
                                    "error": "DualStack is enabled but this partition does not support DualStack",
                                    "type": "error"
                                }
                            ],
                            "type": "tree"
                        },
                        {
                            "conditions": [],
                            "rules": [
                                {
                                    "conditions": [],
                                    "endpoint": {
                                        "url": "https://license-manager-linux-
subscriptions.{Region}.{PartitionResult#dnsSuffix}",
                                        "properties": {},
                                        "headers": {}
                                    },
                                    "type": "endpoint"
                                }
                            ],
                            "type": "tree"
                        }
                    ],
```

```
                "type": "tree"
            }
        ],
        "type": "tree"
    },
    {
        "conditions": [],
        "error": "Invalid Configuration: Missing Region",
        "type": "error"
    }
],
"type": "tree"
}
]
},
"smithy.rules#endpointTests": {
  "testCases": [
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"

  }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {

   "documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
      "expect": {
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"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{

"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",

"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
}

},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{

"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}

},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,

"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{

"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"

}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {

"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},

{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {

"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"

```
                }
            },
            {
                "documentation": "Missing region",

            "expect": {
                "error": "Invalid Configuration: Missing Region"
                }
            }
        ],
        "version": "1.0"
      }
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
      "smithy.api#enum": [
        {
          "name": "Enabled",
          "value": "Enabled",
          "documentation": "Enabled LinuxSubscriptionsDiscovery"
        },
        {
          "name": "Disabled",
          "value": "Disabled",
          "documentation": "Disabled LinuxSubscriptionsDiscovery"
        }
      ]
    }
  },
  "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings":
 {
    "type": "structure",
    "members": {
      "SourceRegions": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
        "traits": {
          "smithy.api#documentation": "<p>The Regions in which to discover data for Linux
subscriptions.</p>",
          "smithy.api#required": {}
        }
      },
      "OrganizationIntegration": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
        "traits": {
          "smithy.api#documentation": "<p>Details if you have enabled resource discovery across your
accounts in Organizations.</p>",
```

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest": {
"type": "structure",
"members": {

"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures
that you can use to filter the results by your specified criteria. \n \tFor example, you can specify
<code>Region</code> in the <code>Name</code>, with the \n \t<code>contains</code> operator to list all
subscriptions that match a partial string in the \n \t<code>Value</code>, such as <code>us-west</code>. \n
For each filter, you can specify one of the following values for the <code>Name</code> key \n \tto
streamline results: \n \n \n \n <code>AccountID</code>\n
\n \n \n \n <code>AmiID</code>\n \n \n
\n \n <code>DualSubscription</code>\n \n \n
\n \n <code>InstanceID</code>\n \n \n \n
\n <code>InstanceType</code>\n \n \n \n \n
<code>ProductCode</code>\n \n \n \n \n
<code>Region</code>\n \n \n \n \n
<code>Status</code>\n \n \n \n \n
<code>UsageOperation</code>\n \n \n \n For each filter, you can use
one of the following <code>Operator</code> values to \n \t\tdefine the behavior of the filter: \n \n
\n \n <code>contains</code>\n \n \n \n
\n <code>equals</code>\n \n \n \n
\n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis the
nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation":
"NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",

"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional
objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation":
" Lists the Linux subscriptions that have been discovered. If you have linked your\n organization, the returned results will include data aggregated across your accounts in\n Organizations. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptions"
},
"smithy.api#idempotent": {},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Subscriptions"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",

"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results to those that match one or\n more sets of key-value pairs that you specify. For example, you can filter by the name of\n <code>Subscription</code> with an optional operator to see subscriptions that match,\n partially match, or don't match a certain subscription's name. \n The valid names for this filter are: \n \n \n \n <code>Subscription</code>\n \n \n \n The valid Operators for this filter are: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis the nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "

}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListRegisteredSubscriptionProviders"

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            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "RegisteredSubscriptionProviders"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSources": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList",

    "traits": {
                    "smithy.api#documentation": "<p>To filter your results, specify which subscription providers to
return \n\t\t\tin the list.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum items to return in a request.</p>",
                    "smithy.api#range": {
                        "min": 1,
                        "max": 100
                    }
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This \n\tis the
nextToken from a previously truncated response.</p>"
                }
            }
        },

        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse": {
        "type": "structure",
        "members": {
            "RegisteredSubscriptionProviders": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList",
"traits": {
"smithy.api#documentation": " The list of BYOL registration resources that fit the criteria \n\t\t\tyou specified in the request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List the metadata tags that are assigned to the \n\t\t\tspecified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{resourceArn}"
},
"smithy.api#readonly": {}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}

}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags for the requested resource. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",

"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{

"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/RegisterSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " The supported Linux subscription provider to register. ",
"smithy.api#required": {}
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For \n\t\t\tRHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains \n\t\t\tyour Red Hat Offline token. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {

"smithy.api#documentation": " The metadata tags to assign to your registered Linux subscription provider \n\t\t\tresource. "
}
}
},
"traits": {
"smithy.api#input": {}

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        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
                "traits": {
                    "smithy.api#documentation": "<p>The Linux subscription provider that you registered.</p>"
                }
            },
            "SubscriptionProviderArn": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of
 the Linux subscription provider resource that you registered.</p>"
                }
            },
            "SubscriptionProviderStatus": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
                "traits": {
                    "smithy.api#documentation": "<p>Indicates the status of the registration action for the Linux
subscription provider \n\t\t\tthat you requested.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider": {
        "type": "structure",
        "members": {
            "SubscriptionProviderArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                "traits": {
                    "smithy.api#documentation": "<p>The
 Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered.</p>"
                }
            },
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
                "traits": {
                    "smithy.api#documentation": "<p>A supported third-party Linux subscription provider. License
Manager currently supports \n\t\t\tRed Hat subscriptions.</p>"
                }
            },
            "SecretArn": {
```

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider \n\t\t\taccess token. For RHEL account subscriptions, this is the offline token. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " Indicates the status of your registered Linux subscription provider access token \n\t\t\tfrom the last time License Manager retrieved subscription data. For RHEL account subscriptions, \n\t\t\tthis is the status of the offline token. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A detailed message that's associated with your BYOL subscription \n\t\t\tprovider token status. "
}
},
"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that License Manager accessed third-party subscription data \n\t\t\tfor your account from your registered Linux subscription provider. "
}
}
},
"traits": {
"smithy.api#documentation": " A third-party provider for operating system (OS) platform software and license \n\t\t\tsubscriptions, such as Red Hat. When you register a third-party Linux subscription \n\t\t\tprovider, License Manager can get subscription data from the registered provider. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {

```
                "target": "smithy.api#String"
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Unable to find the requested Amazon Web Services resource.</p>",
            "smithy.api#error": "client"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-
\\.]{0,63}:secret:[^/]{1,1023}$"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "InProgress",
                    "value": "InProgress",
                    "documentation": "InProgress status"
                },
                {
                    "name": "Completed",
                    "value": "Completed",
                    "documentation": "Completed status"
                },
                {
                    "name": "Successful",
                    "value": "Successful",
                    "documentation": "Successful status"
                },
                {
                    "name": "Failed",
                    "value": "Failed",
                    "documentation": "Failed status"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#length": {
```

"min": 1,
"max": 100
}
}
},
"traits": {
"smithy.api#length": {
"min": 1,
"max": 100
},
"smithy.api#uniqueItems": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
"type": "structure",
"members": {
"Name": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the subscription. "
}
},
"Type": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own\n Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the\n Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"InstanceCount": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
"traits": {
"smithy.api#documentation": " The total amount of running instances using this subscription. "
}
}
},

```
        "traits": {
            "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
        "type": "list",

     "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-
9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "RedHat",
                    "value": "RedHat",
                    "documentation": "RedHat subscription provider namespace"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList": {
        "type":
 "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "ACTIVE",
                    "value": "ACTIVE",
                    "documentation": "ACTIVE status"
                },
                {
                    "name": "INVALID",
```

"value": "INVALID",
"documentation": "INVALID status"
},
{
"name": "PENDING",
"value": "PENDING",
"documentation": "PENDING status"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList":
{
"type": "list",
"member": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"

},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Add metadata tags to the specified Amazon Web Services
resource. ",

"smithy.api#http": {
"method": "PUT",
"uri": "/tags/{resourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest": {
"type": "structure",
"members": {
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified \n\t\t\tmetadata tags. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to the Amazon Web Services resource. Tags are \n\t\t\tformatted as key value pairs. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Tags": {
"type": "map",
"key":
{
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},

"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request was denied due to request throttling. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "DELETE",
"uri": "/tags/{resourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest": {
"type": "structure",

"members": {
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tagKeys": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList",
"traits": {
"smithy.api#documentation": " A list of metadata tag keys to remove from the requested \n\t\t\tresource. ",
"smithy.api#httpQuery": "tagKeys",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},

{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required":
{}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. ",
"smithy.api#required": {}
}
},
"AllowUpdate": {
"target": "smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",

"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}

},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",

```
            "smithy.api#error": "client"
        }
    }
  }
}
```

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spanInitializeStart
InterceptExecution
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
InterceptBeforeSerialization
OperationSerializer
InterceptAfterSerialization
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step

spanRetryLoop
InterceptBeforeRetryLoop
Retry
InterceptAttempt
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
InterceptBeforeSigning
Signing
InterceptAfterSigning
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
InterceptAfterDeserialization
OperationDeserializer
InterceptBeforeDeserialization
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
InterceptTransmit
ListLicenses
Initialize stack step
spanInitializeStart
InterceptExecution
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
InterceptBeforeSerialization
OperationSerializer
InterceptAfterSerialization
Build stack step
ClientRequestID
ComputeContentLength
SetCredentialSourceMiddleware
UserAgent
AddTimeOffsetMiddleware

RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
InterceptBeforeRetryLoop
Retry
InterceptAttempt
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
InterceptBeforeSigning
Signing
InterceptAfterSigning
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
InterceptAfterDeserialization
OperationDeserializer
InterceptBeforeDeserialization
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
InterceptTransmit

1.5187 github.com/ovh/go-ovh 1.8.0

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1.5188 github.com/prometheus/sigv4 0.2.0

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1.5189 github.com/stackitcloud/stackit-sdk-go/core 0.17.2

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1.5190 protobuf 1.36.7

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pkgbase = protoc-gen-go-bin
pkgdesc = Go support for Google's protocol buffers
pkgver = 1.36.7
pkgrel = 1
url = https://github.com/protocolbuffers/protobuf-go
arch = aarch64
arch = i686
arch = x86_64
license = BSD-3-Clause
depends = protobuf
provides = protoc-gen-go

conflicts = protoc-gen-go
source = protoc-gen-go-1.36.7-README.md::https://github.com/protocolbuffers/protobuf-go/raw/refs/tags/v1.36.7/README.md
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sha256sums_x86_64 = 343d749a98c23bebe1f2f05270c720e064037dab2b0dcc22330eb770f7710d46

pkgname = protoc-gen-go-bin

Found in path(s):
* /protoc-gen-go-bin-tar-gz/protoc-gen-go-bin/.SRCINFO
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2580839638_1758872706.7966864/0/protoc-gen-go-bin-tar-gz/protoc-gen-go-bin/PKGBUILD#
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*

1.5191 @grafana/schema 10.4.19

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1.5192 @grafana/e2e-selectors 10.4.19

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Manage your Grafana Enterprise license in AWS Marketplace

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- Add active users
- Remove active users
- Cancel your subscription to Grafana Enterprise.

To modify your Grafana Enterprise subscription in AWS Marketplace:

1. Open the AWS Console and navigate to [Subscription Management](https://console.aws.amazon.com/marketplace/home/subscriptions#/subscriptions).

1. Update your license.

1. Sign in to Grafana as a Server Administrator.

1. Click **Administration** in the side navigation menu, **General**, and then **Stats and license**.

1. In the **Token** section under **Enterprise License**, click **Renew token**.

This action retrieves updated license information from AWS.

> To learn more about licensing and active users, refer to [Activate a Grafana Enterprise license purchased through AWS Marketplace](../).

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aliases:

- ../admin/view-server-settings/
- ../admin/view-server-stats/
- view-server/
- view-server/view-server-settings/
- view-server/view-server-stats/
description: How to view server settings in the Grafana UI
keywords:
- grafana
- configuration
- server
- settings
labels:
products:
  - cloud
  - enterprise
title: View server statistics and license
weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration](../../setup-grafana/configure-grafana/#configuration-file-location) file and any environmental
variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration](../../setup-grafana/configure-grafana/#server).

View Grafana server stats

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu.
 For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
 Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
 Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations,
 then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1

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description: Activate a Grafana Enterprise license from AWS Marketplace on ECS
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labels:
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Activate a Grafana Enterprise license from AWS Marketplace on ECS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks.

Task 1: Deploy Grafana Enterprise on Amazon ECS

1. Deploy Grafana Enterprise on Amazon ECS.

   For more information about deploying an application on Amazon ECS, refer to [Creating an Amazon ECS service](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/create-service.html).

1. As you create the Amazon ECS service, use the Grafana Enterprise version 8.3.0 or later container image.

   For example, enter `grafana/grafana-enterprise:8.3.3`.

   > Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
  - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
  - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability:

1. In AWS ECS, use environment variables to update the `database` parameters.

   For a list of database parameters, refer to [Configuration](../../../../setup-grafana/configure-grafana/#database).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

For more information about creating a task, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1. Within the new revision, edit the Grafana Enterprise container for this task, and add the following environment variables to the container:

```
GF_DATABASE_TYPE=[database type]
GF_DATABASE_HOST=[database address and port]
GF_DATABASE_NAME=[database name]
GF_DATABASE_USER=[database username]
GF_DATABASE_PASSWORD=[database password]
```

> For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, create an access policy with the following permissions:

- `"license-manager:CheckoutLicense"`
- `"license-manager:ListReceivedLicenses"`
- `"license-manager:GetLicenseUsage"`
- `"license-manager:CheckInLicense"`

For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Create an Elastic Container Service task role and attach the policy you created in the previous step.

For more information about creating a task role, refer to [IAM Roles for Tasks](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/task-iam-roles.html).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

For more information about creating a revision of the task definition, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.
 Within the new revision, perform the following steps:

  a. Update the Task Role of your ECS Task to the role that you created, with permission to access license information.

  b. Edit the Grafana Enterprise container for this task, and add the following environment variable to the container:

  ```
  GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
  ```

  For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 4: Start or restart Grafana

1. To restart Grafana and activate your license, update the service running Grafana to use the latest revision of the task definition that you created.
1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate
 that your license is active.

For more information about validating that your license is active, refer to [Grafana Enterprise license restrictions](../../#grafana-enterprise-license-restrictions).
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---
aliases:

- ../../../enterprise/activate-aws-marketplace-license/transfer-ge-license/
- ../../../enterprise/license/activate-aws-marketplace-license/transfer-ge-license/
description: Transfer your AWS Marketplace Grafana Enterprise license
keywords:
- grafana
- enterprise
- aws
- marketplace
- transfer
- move
labels:
products:
  - enterprise
  - oss
title: Transfer your AWS Marketplace Grafana Enterprise license
weight: 400

Transfer your AWS Marketplace Grafana Enterprise license

You can transfer your AWS Marketplace Grafana Enterprise license to another Grafana Enterprise instance. The transfer process requires that you first remove your license from one instance, and then apply the license to another instance.

> When you remove an Enterprise license, the system immediately disables all Grafana Enterprise features.

To remove an Enterprise license from a Grafana Enterprise instance, perform one of the following steps:

- If you are using Amazon ECS or
  Amazon EKS, remove the `GF_ENTERPRISE_LICENSE_VALIDATION_TYPE` environment variable from the container.
- If you have deployed Grafana Enterprise outside of AWS, remove the `aws` license_validation_type value from the grafana.ini configuration file.

It can take the system up to one hour to clear the license. After the system clears the license, you can apply the same license to another Grafana Enterprise instance.

To determine that the system has returned your license, check the license details in AWS License Manager.
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---
aliases:
 - ../../../enterprise/activate-aws-marketplace-license/activate-license-on-eks/
 - ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-eks/
description: Activate a Grafana Enterprise license from AWS Marketplace on EKS
keywords:
 - grafana
 - enterprise
 - aws
 - marketplace
 - eks
 - activate
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license from AWS Marketplace on EKS
weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

  For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html).

  For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm Chart](https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme).

1. Use `kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>` to update the container image to Grafana Enterprise version 8.3.0 or later.

For example, enter `grafana/grafana-enterprise:8.3.3`.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana
for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
- For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
- For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[database]
type = [database type]
host = [database address and port]
name = [database name]
user = [database username]
password = [database password]
```

- **Option 2:** use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following database variables:

```
- name: GF_DATABASE_TYPE
  value: [database type]
- name: GF_DATABASE_HOST
  value: [database address and port]
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
```

```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high availability](../../../../setup-grafana/set-up-for-high-availability/).

## Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

  For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

  - **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

    ```
    [enterprise]
    license_validation_type=aws
    ```

  - **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

    ```
    name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
    value: aws
    ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,
```

1. Run the command `kubectl rollout restart deployment my-release`.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS troubleshooting](https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html).

1.5197 @grafana-plugins/tempo 10.4.19

1.5197.1 Available under license :

```
---
aliases:
 - ../../enterprise/activate-aws-marketplace-license/about-ge-license-through-aws/
 - ../../enterprise/license/activate-aws-marketplace-license/
 - ../../enterprise/license/activate-aws-marketplace-license/about-ge-license-through-aws/
description: Activate your Grafana Enterprise license purchased in AWS Marketplace
 to take advantage of Grafana Enterprise observability features
keywords:
 - grafana
 - aws
 - marketplace
 - enterprise
 - license
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license purchased through AWS Marketplace
weight: 400
---

# Activate a Grafana Enterprise license purchased through AWS Marketplace

AWS Marketplace is a convenient place for AWS customers to buy and manage a license for Grafana Enterprise versions 8.3.0 and later.

{{< section >}}

You can deploy Grafana Enterprise in the following ways:

- Using AWS services like ECS, EKS or EC2.
- In an instance outside AWS.
```

In each case, you must activate
the Grafana Enterprise license purchased in AWS Marketplace to take advantage of Grafana Enterprise observability features. Grafana Enterprise licenses purchased through AWS Marketplace are subject to the same [restrictions](../#license-restrictions) as Grafana Enterprise licensed purchased directly from Grafana Labs.

> To purchase a license directly from Grafana Labs or learn more about other Grafana offerings, [Contact a Grafana Labs representative](/contact?about=grafana-enterprise).

Before you begin

Become an AWS customer. Only AWS customers have access to purchase services through AWS Marketplace. To learn more about becoming an AWS customer, refer to [Sign up for AWS](https://portal.aws.amazon.com/billing/signup#/start).
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aliases:
 - ../../../enterprise/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
 - ../../../enterprise/license/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
description: Manage your Grafana Enterprise license in AWS Marketplace
keywords:
 - grafana
 - enterprise
 - aws
 - marketplace
 - manage
 - add
 - remove
 - users
labels:
 products:
   - enterprise
   - oss
title: Manage your Grafana Enterprise license in AWS Marketplace
weight: 400

Manage your Grafana Enterprise license in AWS Marketplace

You can use AWS Marketplace to make the following modifications to your Grafana Enterprise license:

- Add active users
- Remove active users
- Cancel your subscription to Grafana Enterprise.

To modify your Grafana Enterprise subscription in AWS Marketplace:

1. Open the AWS Console and navigate to [Subscription Management](https://console.aws.amazon.com/marketplace/home/subscriptions#/subscriptions).

1. Update your license.

1.
 Sign in to Grafana as a Server Administrator.

1. Click **Administration** in the side navigation menu, **General**, and then **Stats and license**.

1. In the **Token** section under **Enterprise License**, click **Renew token**.

  This action retrieves updated license information from AWS.

> To learn more about licensing and active users, refer to [Activate a Grafana Enterprise license purchased through AWS Marketplace](../).

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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
description: Activate a Grafana Enterprise license from AWS on an instance deployed
outside of AWS
keywords:
- grafana
- enterprise
- aws
- marketplace
- activate
labels:
products:
- enterprise
- oss
title: Activate a Grafana Enterprise license from AWS on an instance deployed outside
of AWS
weight: 300

Activate a Grafana Enterprise license from AWS on an instance deployed outside of AWS

While AWS Marketplace lists ECS and EKS as the supported environments for Grafana Enterprise, you can apply a Grafana Enterprise license from AWS Marketplace to any Grafana instance with network access to the AWS licensing service.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users, and create access policies.
- Be sure there is network access between AWS and the environment where you intend to run Grafana. Network access is required because your Grafana instance communicates with the [AWS License Manager endpoints and quotas](https://docs.aws.amazon.com/general/latest/gr/licensemanager.html) to retrieve license and subscription information. Grafana instances with access to the public internet will have access to AWS license manager.

To activate a Grafana Enterprise license from AWS on a Grafana Enterprise instance deployed outside of AWS, complete the following tasks.

Task 1: Install Grafana Enterprise

To install Grafana, refer to the documentation specific to your implementation.

- [Install Grafana](../../../../setup-grafana/installation/).
- [Run Grafana Docker image](../../../../setup-grafana/installation/docker/).
- [Deploy Grafana on Kubernetes](../../../../setup-grafana/installation/kubernetes/#deploy-grafana-enterprise-on-kubernetes).

Task 2: Create an AWS IAM user with access to your Grafana Enterprise license

To retrieve your license, Grafana Enterprise requires access to your AWS account and license information. To grant access, create an IAM user in AWS with access to the license, and pass its credentials as environment variables on the host or container where Grafana is running. These environment variables allow Grafana to retrieve license details from AWS.

1. In the AWS License Manager service, create an IAM policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating a policy in AWS, refer to [Creating IAM policies](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create.html).

  For more information about AWS Identity and Access Management, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

1. To limit the policy to obtain usage data just for Grafana Enterprise, in the **Resources** section of the policy, specify your license ARN.

You can find your license ID in the **Granted Licenses** section of [AWS License Manager](https://console.aws.amazon.com/license-manager/home).

The policy JSON should look similar to the following example:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
        "Sid": "VisualEditor0",
        "Effect": "Allow",
        "Action": "license-manager:GetLicenseUsage",
        "Resource": "arn:aws:license-manager::[YOUR_ACCOUNT]:license:[YOUR_LICENSE_ID]"
    },
    {
        "Sid": "VisualEditor1",
        "Effect": "Allow",
        "Action": [
          "license-manager:CheckoutLicense",
           "license-manager:ListReceivedLicenses",
          "license-manager:CheckInLicense"
        ],
        "Resource": "*"
    }
  ]
}
```

1. Create an IAM user and choose access key credentials as its authentication method.

For more information about creating an IAM user, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

For more information about access key credentials, refer to [Managing access keys for IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html).

1. Attach the policy you created to the IAM user.

1. Add the following values as environment variables to the host or container running Grafana:

- AWS region
- IAM user's access key ID
- IAM user's secret access key

The environment variables should look similar to the following example:

```
AWS_ACCESS_KEY_ID=ABCD5E75FGHIJKTM7
AWS_SECRET_ACCESS_KEY=k8fhYAQVy+5NhCejhe6HeSjSphjRuy+12C06
 AWS_REGION=us-east-1
```

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

Choose one of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** In the `[enterprise]` section of the grafana.ini configuration file, add `license_validation_type=aws`.

 For example:

 ```
 [enterprise]
 license_validation_type=aws
 ```

- **Option 2:** Add the following environment variable to the container or host:

 ```
 GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
 ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, start (or restart) Grafana.

For information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).
The icons contained in this solid icons folder were originally created
by [IconScout](https://github.com/Iconscout/unicons)
---
aliases:
 - ../admin/view-server-settings/
 - ../admin/view-server-stats/
 - view-server/
 - view-server/view-server-settings/
 - view-server/view-server-stats/
description: How to view server settings in the Grafana UI
keywords:
 - grafana
 - configuration
 - server
 - settings

labels:
 products:
   - cloud
   - enterprise
title: View server statistics and license
weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration](../../setup-grafana/configure-grafana/#configuration-file-location) file and any environmental
 variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration](../../setup-grafana/configure-grafana/#server).

View Grafana server stats

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu.
 For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
 Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
 Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations,
 then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1
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keywords:
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- aws
- marketplace
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labels:
products:
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title: Activate a Grafana Enterprise license from AWS Marketplace on ECS
weight: 250

Activate a Grafana Enterprise license from AWS Marketplace on ECS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions,

create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks.

Task 1: Deploy Grafana Enterprise on Amazon ECS

1. Deploy Grafana Enterprise on Amazon ECS.

  For more information about deploying an application on Amazon ECS, refer to [Creating an Amazon ECS service](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/create-service.html).

1. As you create the Amazon ECS service, use the Grafana Enterprise version 8.3.0 or later container image.

  For example, enter `grafana/grafana-enterprise:8.3.3`.

  > Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
 - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
  - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability:

1. In AWS ECS, use environment variables to update the `database` parameters.

  For a list of database parameters, refer to [Configuration](../../../../setup-grafana/configure-grafana/#database).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

  For more information about creating a task, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.
 Within the new revision, edit the Grafana Enterprise container for this task, and add the following environment variables to the container:

  ```
  ```

```
GF_DATABASE_TYPE=[database type]
GF_DATABASE_HOST=[database address and port]
GF_DATABASE_NAME=[database name]
GF_DATABASE_USER=[database username]
GF_DATABASE_PASSWORD=[database password]
```

> For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, create an access policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

  For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Create an Elastic Container Service task role and attach the policy you created in the previous step.

  For more information about creating a task role, refer to [IAM Roles for Tasks](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/task-iam-roles.html).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

  For more information about creating a revision of the task definition, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.
 Within the new revision, perform the following steps:

  a. Update the Task Role of your ECS Task to the role that you created, with permission to access license information.

  b. Edit the Grafana Enterprise container for this task, and add the following environment variable to the container:

  ```
  ```

GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
```

For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

### Task 4: Start or restart Grafana

1. To restart Grafana and activate your license, update the service running Grafana to use the latest revision of the task definition that you created.
1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate
that your license is active.

For more information about validating that your license is active, refer to [Grafana Enterprise license restrictions](../../#grafana-enterprise-license-restrictions).
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Transfer your AWS Marketplace Grafana Enterprise license

You can transfer your AWS Marketplace Grafana Enterprise license to another Grafana Enterprise instance. The transfer process requires that you first remove your license from one instance, and then apply the license to another instance.

> When you remove an Enterprise license, the system immediately disables all Grafana Enterprise features.

To remove an Enterprise license from a Grafana Enterprise instance, perform one of the following steps:

- If you are using Amazon ECS or
 Amazon EKS, remove the `GF_ENTERPRISE_LICENSE_VALIDATION_TYPE` environment variable from the container.
- If you have deployed Grafana Enterprise outside of AWS, remove the `aws` license_validation_type value from the grafana.ini configuration file.

It can take the system up to one hour to clear the license. After the system clears the license, you can apply the same license to another Grafana Enterprise instance.

To determine that the system has returned your license, check the license details in AWS License Manager.
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---
aliases:
 - ../../../enterprise/activate-aws-marketplace-license/activate-license-on-eks/
 - ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-eks/
description: Activate a Grafana Enterprise license from AWS Marketplace on EKS
keywords:
 - grafana
 - enterprise

- aws
- marketplace
- eks
- activate
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license from AWS Marketplace on EKS
weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

  For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html).

  For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm Chart](https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme).

1. Use `kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>` to update the container image to Grafana Enterprise version 8.3.0 or later.

  For example, enter `grafana/grafana-enterprise:8.3.3`.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana
 for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
 - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
 - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[database]
type = [database type]
 host = [database address and port]
name = [database name]
user = [database username]
password = [database password]
```

- **Option 2:** use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following database variables:

```
- name: GF_DATABASE_TYPE
  value: [database type]
- name: GF_DATABASE_HOST
  value: [database address and port]
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high availability](../../../../setup-grafana/set-up-for-high-availability/).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

- `"license-manager:CheckoutLicense"`
- `"license-manager:ListReceivedLicenses"`
- `"license-manager:GetLicenseUsage"`
- `"license-manager:CheckInLicense"`

For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

  ```
  [enterprise]
  license_validation_type=aws
  ```

- **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

  ```
  name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
  value: aws
  ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,

1. Run the command `kubectl rollout restart deployment my-release`.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS troubleshooting](https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html).

1.5198 go-jose 3.0.4

1.5198.1 Available under license :

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1.5199 @grafana-plugins/grafana-azure-monitor-datasource 10.4.19

1.5199.1 Available under license :

```
---
aliases:
 - ../../enterprise/activate-aws-marketplace-license/about-ge-license-through-aws/
 - ../../enterprise/license/activate-aws-marketplace-license/
 - ../../enterprise/license/activate-aws-marketplace-license/about-ge-license-through-aws/
description: Activate your Grafana Enterprise license purchased in AWS Marketplace
 to take advantage of Grafana Enterprise observability features
keywords:
 - grafana
 - aws
 - marketplace
 - enterprise
 - license
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license purchased through AWS Marketplace
weight: 400
---

# Activate a Grafana Enterprise license purchased through AWS Marketplace

AWS Marketplace is a convenient place for AWS customers to buy and manage a license for Grafana Enterprise
versions 8.3.0 and later.

{{< section >}}

You can deploy Grafana Enterprise in the following ways:

- Using AWS services like ECS, EKS or EC2.
- In an instance outside AWS.

In each case, you must activate
```

the Grafana Enterprise license purchased in AWS Marketplace to take advantage of Grafana Enterprise observability features. Grafana Enterprise licenses purchased through AWS Marketplace are subject to the same [restrictions](../#license-restrictions) as Grafana Enterprise licensed purchased directly from Grafana Labs.

> To purchase a license directly from Grafana Labs or learn more about other Grafana offerings, [Contact a Grafana Labs representative](/contact?about=grafana-enterprise).

Before you begin

Become an AWS customer. Only AWS customers have access to purchase services through AWS Marketplace. To learn more about becoming an AWS customer, refer to [Sign up for AWS](https://portal.aws.amazon.com/billing/signup#/start).
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aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
description: Activate a Grafana Enterprise license from AWS on an instance deployed
outside of AWS
keywords:
- grafana
- enterprise
- aws
- marketplace
- activate
labels:
products:
- enterprise
- oss
title: Activate a Grafana Enterprise license from AWS on an instance deployed outside
of AWS
weight: 300

Activate a Grafana Enterprise license from AWS on an instance deployed outside of AWS

While AWS Marketplace lists ECS and EKS as the supported environments for Grafana Enterprise, you can apply a Grafana Enterprise license from AWS Marketplace to any Grafana instance with network access to the AWS licensing service.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users, and create access policies.
- Be sure there is network access between AWS and the environment where you intend to run Grafana. Network access is required because your Grafana instance communicates with the [AWS License Manager endpoints and quotas](https://docs.aws.amazon.com/general/latest/gr/licensemanager.html) to retrieve license and subscription information. Grafana instances with access to the public internet will have access to AWS license manager.

To activate a Grafana Enterprise license from AWS on a Grafana Enterprise instance deployed outside of AWS, complete the following tasks.

Task 1: Install Grafana Enterprise

To install Grafana, refer to the documentation specific to your implementation.

- [Install Grafana](../../../../setup-grafana/installation/).
- [Run Grafana Docker image](../../../../setup-grafana/installation/docker/).
-
 [Deploy Grafana on Kubernetes](../../../../setup-grafana/installation/kubernetes/#deploy-grafana-enterprise-on-kubernetes).

Task 2: Create an AWS IAM user with access to your Grafana Enterprise license

To retrieve your license, Grafana Enterprise requires access to your AWS account and license information. To grant access, create an IAM user in AWS with access to the license, and pass its credentials as environment variables on the host or container where Grafana is running. These environment variables allow Grafana to retrieve license details from AWS.

1. In the AWS License Manager service, create an IAM policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating a policy in AWS, refer to [Creating IAM policies](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create.html).

  For more information about AWS Identity and Access Management, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

1. To limit the policy to obtain usage data just for Grafana Enterprise, in the **Resources** section of the policy, specify your license ARN.

  You can find your license ID in the **Granted Licenses** section of [AWS License Manager](https://console.aws.amazon.com/license-manager/home).

  The policy JSON should look similar to the following example:

  ```
  {
    "Version": "2012-10-17",
    "Statement": [
      {
          "Sid": "VisualEditor0",
          "Effect": "Allow",
          "Action": "license-manager:GetLicenseUsage",
          "Resource": "arn:aws:license-manager::[YOUR_ACCOUNT]:license:[YOUR_LICENSE_ID]"
      },
      {
          "Sid": "VisualEditor1",
          "Effect": "Allow",
  ```

```
            "Action": [
              "license-manager:CheckoutLicense",
               "license-manager:ListReceivedLicenses",
              "license-manager:CheckInLicense"
            ],
            "Resource": "*"
        }
    ]
}
```

1. Create an IAM user and choose access key credentials as its authentication method.

  For more information about creating an IAM user, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

  For more information about access key credentials, refer to [Managing access keys for IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html).

1. Attach the policy you created to the IAM user.

1. Add the following values as environment variables to the host or container running Grafana:

  - AWS region
  - IAM user's access key ID
  - IAM user's secret access key

  The environment variables should look similar to the following example:

  ```
  AWS_ACCESS_KEY_ID=ABCD5E75FGHIJKTM7
  AWS_SECRET_ACCESS_KEY=k8fhYAQVy+5NhCejhe6HeSjSphjRuy+12C06
   AWS_REGION=us-east-1
  ```

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

Choose one of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** In the `[enterprise]` section of the grafana.ini configuration file, add `license_validation_type=aws`.

  For example:

  ```
  [enterprise]
```

license_validation_type=aws
```

- **Option 2:** Add the following environment variable to the container or host:

```
GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, start (or restart) Grafana.

For information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).
The icons contained in this solid icons folder were originally created
by [IconScout](https://github.com/Iconscout/unicons)
---
aliases:
 - ../admin/view-server-settings/
 - ../admin/view-server-stats/
 - view-server/
 - view-server/view-server-settings/
 - view-server/view-server-stats/
description: How to view server settings in the Grafana UI
keywords:
 - grafana
 - configuration
 - server
 - settings
labels:
 products:
   - cloud
   - enterprise
title: View server statistics and license
weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana
```

server via the [Configuration](../../setup-grafana/configure-grafana/#configuration-file-location) file and any environmental
 variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration](../../setup-grafana/configure-grafana/#server).

View Grafana server stats

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu.
 For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
 Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
 Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)

- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations,
 then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1
---
aliases:
 - ../../../enterprise/activate-aws-marketplace-license/activate-license-on-ecs/
 - ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-ecs/
description: Activate a Grafana Enterprise license from AWS Marketplace on ECS
keywords:
 - grafana
 - ecs
 - enterprise
 - aws
 - marketplace
 - activate
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license from AWS Marketplace on ECS
weight: 250

Activate a Grafana Enterprise license from AWS Marketplace on ECS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS

Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks.

Task 1: Deploy Grafana Enterprise on Amazon ECS

1. Deploy Grafana Enterprise on Amazon ECS.

  For more information about deploying an application on Amazon ECS, refer to [Creating an Amazon ECS service](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/create-service.html).

1. As you create the Amazon ECS service, use the Grafana Enterprise version 8.3.0 or later container image.

  For example, enter `grafana/grafana-enterprise:8.3.3`.

  > Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
 - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
  - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability:

1. In AWS ECS, use environment variables to update the `database` parameters.

  For a list of database parameters, refer to [Configuration](../../../../setup-grafana/configure-grafana/#database).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

  For more information about creating a task, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.
 Within the new revision, edit the Grafana Enterprise container for this task, and add the following environment variables to the container:

```
GF_DATABASE_TYPE=[database type]
GF_DATABASE_HOST=[database address and port]
GF_DATABASE_NAME=[database name]
GF_DATABASE_USER=[database username]
GF_DATABASE_PASSWORD=[database password]
```

> For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, create an access policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

  For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Create an Elastic Container Service task role and attach the policy you created in the previous step.

  For more information about creating a task role, refer to [IAM Roles for Tasks](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/task-iam-roles.html).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

  For more information about creating a revision of the task definition, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1. Within the new revision, perform the following steps:

  a. Update the Task Role of your ECS Task to the role that you created, with permission to access license information.

  b. Edit the Grafana Enterprise container for this task, and add the following environment variable to the container:

```
GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
```

For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 4: Start or restart Grafana

1. To restart Grafana and activate your license, update the service running Grafana to use the latest revision of the task definition that you created.
1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate
that your license is active.

For more information about validating that your license is active, refer to [Grafana Enterprise license restrictions](../../#grafana-enterprise-license-restrictions).
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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/transfer-ge-license/
- ../../../enterprise/license/activate-aws-marketplace-license/transfer-ge-license/
description: Transfer your AWS Marketplace Grafana Enterprise license
keywords:
- grafana
- enterprise
- aws

- marketplace
- transfer
- move
labels:
products:
  - enterprise
  - oss
title: Transfer your AWS Marketplace Grafana Enterprise license
weight: 400

Transfer your AWS Marketplace Grafana Enterprise license

You can transfer your AWS Marketplace Grafana Enterprise license to another Grafana Enterprise instance. The transfer process requires that you first remove your license from one instance, and then apply the license to another instance.

> When you remove an Enterprise license, the system immediately disables all Grafana Enterprise features.

To remove an Enterprise license from a Grafana Enterprise instance, perform one of the following steps:

- If you are using Amazon ECS or
 Amazon EKS, remove the `GF_ENTERPRISE_LICENSE_VALIDATION_TYPE` environment variable from the container.
- If you have deployed Grafana Enterprise outside of AWS, remove the `aws` license_validation_type value from the grafana.ini configuration file.

It can take the system up to one hour to clear the license. After the system clears the license, you can apply the same license to another Grafana Enterprise instance.

To determine that the system has returned your license, check the license details in AWS License Manager.
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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-eks/
- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-eks/
description: Activate a Grafana Enterprise license from AWS Marketplace on EKS
keywords:
- grafana

- enterprise
- aws
- marketplace
- eks
- activate
labels:
products:
  - enterprise
  - oss
title: Activate a Grafana Enterprise license from AWS Marketplace on EKS
weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

  For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html).

  For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm Chart](https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme).

1. Use `kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>` to update the container image to Grafana Enterprise version 8.3.0 or later.

  For example, enter `grafana/grafana-enterprise:8.3.3`.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
 - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
 - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[database]
type = [database type]
 host = [database address and port]
name = [database name]
user = [database username]
password = [database password]
```

- **Option 2:** use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following database variables:

```
- name: GF_DATABASE_TYPE
  value: [database type]
- name: GF_DATABASE_HOST
  value: [database address and port]
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high availability](../../../../setup-grafana/set-up-for-high-availability/).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

  For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

  - **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

    ```
    [enterprise]
    license_validation_type=aws
    ```

  - **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

    ```
    name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
    value: aws
    ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,

1. Run the command `kubectl rollout restart deployment my-release`.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-

grafana/).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS troubleshooting](https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html).

1.5200 @grafana-plugins/grafana-testdata-datasource 10.4.19

1.5200.1 Available under license :

```
---
aliases:
 - ../../enterprise/activate-aws-marketplace-license/about-ge-license-through-aws/
 - ../../enterprise/license/activate-aws-marketplace-license/
 - ../../enterprise/license/activate-aws-marketplace-license/about-ge-license-through-aws/
description: Activate your Grafana Enterprise license purchased in AWS Marketplace
 to take advantage of Grafana Enterprise observability features
keywords:
 - grafana
 - aws
 - marketplace
 - enterprise
 - license
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license purchased through AWS Marketplace
weight: 400
---

# Activate a Grafana Enterprise license purchased through AWS Marketplace

AWS Marketplace is a convenient place for AWS customers to buy and manage a license for Grafana Enterprise versions 8.3.0 and later.

{{< section >}}

You can deploy Grafana Enterprise in the following ways:

- Using AWS services like ECS, EKS or EC2.
- In an instance outside AWS.

In each case, you must activate
 the Grafana Enterprise license purchased in AWS Marketplace to take advantage of Grafana Enterprise observability features. Grafana Enterprise licenses purchased through AWS Marketplace are subject to the same [restrictions](../#license-restrictions) as Grafana Enterprise licensed purchased directly from Grafana Labs.
```

> To purchase a license directly from Grafana Labs or learn more about other Grafana offerings, [Contact a Grafana Labs representative](/contact?about=grafana-enterprise).

Before you begin

Become an AWS customer. Only AWS customers have access to purchase services through AWS Marketplace. To learn more about becoming an AWS customer, refer to [Sign up for AWS](https://portal.aws.amazon.com/billing/signup#/start).

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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
- ../../../enterprise/license/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
description: Manage your Grafana Enterprise license in AWS Marketplace
keywords:
- grafana
- enterprise
- aws
- marketplace
- manage
- add
- remove
- users
labels:
products:
- enterprise
- oss
title: Manage your Grafana Enterprise license in AWS Marketplace
weight: 400

Manage your Grafana Enterprise license in AWS Marketplace

You can use AWS Marketplace to make the following modifications to your Grafana Enterprise license:

- Add active users
- Remove active users
- Cancel your subscription to Grafana Enterprise.

To modify your Grafana Enterprise subscription in AWS Marketplace:

1. Open the AWS Console and navigate to [Subscription Management](https://console.aws.amazon.com/marketplace/home/subscriptions#/subscriptions).

1. Update your license.

1.
 Sign in to Grafana as a Server Administrator.

1. Click **Administration** in the side navigation menu, **General**, and then **Stats and license**.

1. In the **Token** section under **Enterprise License**, click **Renew token**.

  This action retrieves updated license information from AWS.

> To learn more about licensing and active users, refer to [Activate a Grafana Enterprise license purchased through AWS Marketplace](../).

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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/

- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
description: Activate a Grafana Enterprise license from AWS on an instance deployed
 outside of AWS
keywords:
 - grafana
 - enterprise
 - aws
 - marketplace
 - activate
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license from AWS on an instance deployed outside
 of AWS
weight: 300

Activate a Grafana Enterprise license from AWS on an instance deployed outside of AWS

While AWS Marketplace lists ECS and EKS as the supported environments for Grafana Enterprise, you can apply a Grafana Enterprise license from AWS Marketplace to any Grafana instance with network access to the AWS licensing service.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
-
 Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users, and create access policies.
- Be sure there is network access between AWS and the environment where you intend to run Grafana. Network access is required because your Grafana instance communicates with the [AWS License Manager endpoints and quotas](https://docs.aws.amazon.com/general/latest/gr/licensemanager.html) to retrieve license and subscription information. Grafana instances with access to the public internet will have access to AWS license manager.

To activate a Grafana Enterprise license from AWS on a Grafana Enterprise instance deployed outside of AWS, complete the following tasks.

Task 1: Install Grafana Enterprise

To install Grafana, refer to the documentation specific to your implementation.

- [Install Grafana](../../../../setup-grafana/installation/).
- [Run Grafana Docker image](../../../../setup-grafana/installation/docker/).
-
 [Deploy Grafana on Kubernetes](../../../../setup-grafana/installation/kubernetes/#deploy-grafana-enterprise-on-kubernetes).

Task 2: Create an AWS IAM user with access to your Grafana Enterprise license

To retrieve your license, Grafana Enterprise requires access to your AWS account and license information. To grant access, create an IAM user in AWS with access to the license, and pass its credentials as environment variables on the host or container where Grafana is running. These environment variables allow Grafana to retrieve license details from AWS.

1. In the AWS License Manager service, create an IAM policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating a policy in AWS, refer to [Creating IAM policies](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create.html).

  For more information about AWS Identity and Access Management, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

1. To limit the policy to obtain usage data just for Grafana Enterprise, in the **Resources** section of the policy, specify your license ARN.

  You can find your license ID in the **Granted Licenses** section of [AWS License Manager](https://console.aws.amazon.com/license-manager/home).

  The policy JSON should look similar to the following example:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
        "Sid": "VisualEditor0",
        "Effect": "Allow",
        "Action": "license-manager:GetLicenseUsage",
        "Resource": "arn:aws:license-manager::[YOUR_ACCOUNT]:license:[YOUR_LICENSE_ID]"
    },
    {
        "Sid": "VisualEditor1",
        "Effect": "Allow",
        "Action": [
          "license-manager:CheckoutLicense",
           "license-manager:ListReceivedLicenses",
          "license-manager:CheckInLicense"
        ],
        "Resource": "*"
```

```
      }
    ]
  }
```

1. Create an IAM user and choose access key credentials as its authentication method.

  For more information about creating an IAM user, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

  For more information about access key credentials, refer to [Managing access keys for IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html).

1. Attach the policy you created to the IAM user.

1. Add the following values as environment variables to the host or container running Grafana:

  - AWS region
  - IAM user's access key ID
  - IAM user's secret access key

  The environment variables should look similar to the following example:

```
AWS_ACCESS_KEY_ID=ABCD5E75FGHIJKTM7
AWS_SECRET_ACCESS_KEY=k8fhYAQVy+5NhCejhe6HeSjSphjRuy+12C06
 AWS_REGION=us-east-1
```

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

Choose one of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** In the `[enterprise]` section of the grafana.ini configuration file, add `license_validation_type=aws`.

 For example:

```
[enterprise]
license_validation_type=aws
```

- **Option 2:** Add the following environment variable to the container or host:

```
```

GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
```

## Task 4: Start or restart Grafana

To activate Grafana Enterprise features, start (or restart) Grafana.

For information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).
The icons contained in this solid icons folder were originally created
by [IconScout](https://github.com/Iconscout/unicons)
---
aliases:
 - ../admin/view-server-settings/
 - ../admin/view-server-stats/
 - view-server/
 - view-server/view-server-settings/
 - view-server/view-server-stats/
description: How to view server settings in the Grafana UI
keywords:
 - grafana
 - configuration
 - server
 - settings
labels:
 products:
   - cloud
   - enterprise
title: View server statistics and license
weight: 400
---

# View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

## View Grafana server settings

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration](../../setup-grafana/configure-grafana/#configuration-file-location) file and any environmental
 variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-
```

administrators).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration](../../setup-grafana/configure-grafana/#server).

View Grafana server stats

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu.
 For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
 Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
 Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags

- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations,
then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1

The icons contained in this unicons icons folder were originally created
by [IconScout](https://github.com/Iconscout/unicons)

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 - enterprise
 - aws
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 products:
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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-eks/
- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-eks/
description: Activate a Grafana Enterprise license from AWS Marketplace on EKS
keywords:
- grafana
- enterprise
- aws
- marketplace
- eks
- activate
labels:
products:
- enterprise
- oss
title: Activate a Grafana Enterprise license from AWS Marketplace on EKS
weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions,

create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html).

For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm Chart](https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme).

1. Use `kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>` to update the container image to Grafana Enterprise version 8.3.0 or later.

For example, enter `grafana/grafana-enterprise:8.3.3`.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana
for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
- For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
- For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[database]
type = [database type]
host = [database address and port]
name = [database name]
```

```
user = [database username]
password = [database password]
```

- **Option 2:** use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following database variables:

```
- name: GF_DATABASE_TYPE
  value: [database type]
- name: GF_DATABASE_HOST
  value: [database address and port]
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high availability](../../../../setup-grafana/set-up-for-high-availability/).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

  For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

  - **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[enterprise]
license_validation_type=aws
```

- **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

```
name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
value: aws
```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,

1. Run the command `kubectl rollout restart deployment my-release`.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS troubleshooting](https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html).

1.5201 go-sql-driver-mysql 1.9.0

1.5201.1 Available under license :

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1.5202 @grafana-plugins/grafana-pyroscope-datasource 10.4.19

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```
---
aliases:
 - ../../enterprise/activate-aws-marketplace-license/about-ge-license-through-aws/
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description: Activate your Grafana Enterprise license purchased in AWS Marketplace
 to take advantage of Grafana Enterprise observability features
keywords:
 - grafana
 - aws
 - marketplace
 - enterprise
 - license
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license purchased through AWS Marketplace
weight: 400
---

# Activate a Grafana Enterprise license purchased through AWS Marketplace

AWS Marketplace is a convenient place for AWS customers to buy and manage a license for Grafana Enterprise
versions 8.3.0 and later.

{{< section >}}

You can deploy Grafana Enterprise in the following ways:

- Using AWS services like ECS, EKS or EC2.
- In an instance outside AWS.

In each case, you must activate
 the Grafana Enterprise license purchased in AWS Marketplace to take advantage of Grafana Enterprise
observability features. Grafana Enterprise licenses purchased through AWS Marketplace are subject to the same
[restrictions](../#license-restrictions) as Grafana Enterprise licensed purchased directly from Grafana Labs.

> To purchase a license directly from Grafana Labs or learn more about other Grafana offerings, [Contact a Grafana
Labs representative](/contact?about=grafana-enterprise).

## Before you begin

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```

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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
- ../../../enterprise/license/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
description: Manage your Grafana Enterprise license in AWS Marketplace
keywords:
- grafana
- enterprise
- aws
- marketplace
- manage
- add
- remove
- users

labels:
 products:
   - enterprise
   - oss
title: Manage your Grafana Enterprise license in AWS Marketplace
weight: 400

Manage your Grafana Enterprise license in AWS Marketplace

You can use AWS Marketplace to make the following modifications to your Grafana Enterprise license:

- Add active users
- Remove active users
- Cancel your subscription to Grafana Enterprise.

To modify your Grafana Enterprise subscription in AWS Marketplace:

1. Open the AWS Console and navigate to [Subscription Management](https://console.aws.amazon.com/marketplace/home/subscriptions#/subscriptions).

1. Update your license.

1.
 Sign in to Grafana as a Server Administrator.

1. Click **Administration** in the side navigation menu, **General**, and then **Stats and license**.

1. In the **Token** section under **Enterprise License**, click **Renew token**.

  This action retrieves updated license information from AWS.

> To learn more about licensing and active users, refer to [Activate a Grafana Enterprise license purchased through AWS Marketplace](../).
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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
description: Activate a Grafana Enterprise license from AWS on an instance deployed
outside of AWS
keywords:
- grafana
- enterprise
- aws
- marketplace
- activate
labels:
products:
- enterprise
- oss
title: Activate a Grafana Enterprise license from AWS on an instance deployed outside
of AWS
weight: 300

Activate a Grafana Enterprise license from AWS on an instance deployed outside of AWS

While AWS Marketplace lists ECS and EKS as the supported environments for Grafana Enterprise, you can apply a Grafana Enterprise license from AWS Marketplace to any Grafana instance with network access to the AWS licensing service.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users, and create access policies.
- Be sure there is network access between AWS and the environment where you intend to run Grafana. Network access is required because your Grafana instance communicates with the [AWS License Manager endpoints and quotas](https://docs.aws.amazon.com/general/latest/gr/licensemanager.html) to retrieve license and subscription information. Grafana instances with access to the public internet will have access to AWS license manager.

To activate a Grafana Enterprise license from AWS on a Grafana Enterprise instance deployed outside of AWS,

complete the following tasks.

Task 1: Install Grafana Enterprise

To install Grafana, refer to the documentation specific to your implementation.

- [Install Grafana](../../../../setup-grafana/installation/).
- [Run Grafana Docker image](../../../../setup-grafana/installation/docker/).
- [Deploy Grafana on Kubernetes](../../../../setup-grafana/installation/kubernetes/#deploy-grafana-enterprise-on-kubernetes).

Task 2: Create an AWS IAM user with access to your Grafana Enterprise license

To retrieve your license, Grafana Enterprise requires access to your AWS account and license information. To grant access, create an IAM user in AWS with access to the license, and pass its credentials as environment variables on the host or container where Grafana is running. These environment variables allow Grafana to retrieve license details from AWS.

1. In the AWS License Manager service, create an IAM policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating a policy in AWS, refer to [Creating IAM policies](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create.html).

  For more information about AWS Identity and Access Management, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

1. To limit the policy to obtain usage data just for Grafana Enterprise, in the **Resources** section of the policy, specify your license ARN.

  You can find your license ID in the **Granted Licenses** section of [AWS License Manager](https://console.aws.amazon.com/license-manager/home).

  The policy JSON should look similar to the following example:

  ```
  {
    "Version": "2012-10-17",
    "Statement": [
      {
          "Sid": "VisualEditor0",
          "Effect": "Allow",
          "Action": "license-manager:GetLicenseUsage",
  ```

```
            "Resource": "arn:aws:license-manager::[YOUR_ACCOUNT]:license:[YOUR_LICENSE_ID]"
        },
        {
            "Sid": "VisualEditor1",
            "Effect": "Allow",
            "Action": [
              "license-manager:CheckoutLicense",
               "license-manager:ListReceivedLicenses",
              "license-manager:CheckInLicense"
            ],
            "Resource": "*"
        }
    ]
}
```

1. Create an IAM user and choose access key credentials as its authentication method.

  For more information about creating an IAM user, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

  For more information about access key credentials, refer to [Managing access keys for IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html).

1. Attach the policy you created to the IAM user.

1. Add the following values as environment variables to the host or container running Grafana:

  - AWS region
  - IAM user's access key ID
  - IAM user's secret access key

  The environment variables should look similar to the following example:

  ```
  AWS_ACCESS_KEY_ID=ABCD5E75FGHIJKTM7
  AWS_SECRET_ACCESS_KEY=k8fhYAQVy+5NhCejhe6HeSjSphjRuy+12C06
   AWS_REGION=us-east-1
  ```

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

Choose one of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** In the `[enterprise]` section of the grafana.ini configuration file, add `license_validation_type=aws`.

For example:

```
[enterprise]
license_validation_type=aws
```

- **Option 2:** Add the following environment variable to the container or host:

```
GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, start (or restart) Grafana.

For information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).
The icons contained in this solid icons folder were originally created
by [IconScout](https://github.com/Iconscout/unicons)
---
aliases:
 - ../admin/view-server-settings/
 - ../admin/view-server-stats/
 - view-server/
 - view-server/view-server-settings/
 - view-server/view-server-stats/
description: How to view server settings in the Grafana UI
keywords:
 - grafana
 - configuration
 - server
 - settings
labels:
 products:
   - cloud
   - enterprise
title: View server statistics and license
weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration](../../setup-grafana/configure-grafana/#configuration-file-location) file and any environmental
variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration](../../setup-grafana/configure-grafana/#server).

View Grafana server stats

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu.
For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers

- Active users (seen last 30 days)
 Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations,
 then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1

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clear directions next to the object code saying where to find the
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description: Activate a Grafana Enterprise license from AWS Marketplace on EKS
keywords:
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 - enterprise
 - aws
 - marketplace
 - eks
 - activate
labels:
 products:
   - enterprise
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title: Activate a Grafana Enterprise license from AWS Marketplace on EKS
weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

   For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html).

   For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm Chart](https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme).

1. Use `kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>` to update the container image to Grafana Enterprise version 8.3.0 or later.

   For example, enter `grafana/grafana-enterprise:8.3.3`.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
  - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
  - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB

instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[database]
type = [database type]
 host = [database address and port]
name = [database name]
user = [database username]
password = [database password]
```

- **Option 2:** use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following database variables:

```
- name: GF_DATABASE_TYPE
  value: [database type]
- name: GF_DATABASE_HOST
  value: [database address and port]
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high availability](../../../../setup-grafana/set-up-for-high-availability/).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

   - `"license-manager:CheckoutLicense"`
   - `"license-manager:ListReceivedLicenses"`
   - `"license-manager:GetLicenseUsage"`
   - `"license-manager:CheckInLicense"`

   For more information about creating an access policy, refer to [Creating IAM policies

(console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

  ```
  [enterprise]
  license_validation_type=aws
  ```

- **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

  ```
  name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
  value: aws
  ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,

1. Run the command `kubectl rollout restart deployment my-release`.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS troubleshooting](https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html).

1.5203 go-proxy 1.7.1

1.5203.1 Available under license :

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1.5204 @grafana-plugins/stackdriver 10.4.19

1.5204.1 Available under license :

```
---
aliases:
 - ../../enterprise/activate-aws-marketplace-license/about-ge-license-through-aws/
 - ../../enterprise/license/activate-aws-marketplace-license/
 - ../../enterprise/license/activate-aws-marketplace-license/about-ge-license-through-aws/
description: Activate your Grafana Enterprise license purchased in AWS Marketplace
 to take advantage of Grafana Enterprise observability features
keywords:
 - grafana
 - aws
 - marketplace
 - enterprise
 - license
labels:
```

products:
  - enterprise
  - oss
title: Activate a Grafana Enterprise license purchased through AWS Marketplace
weight: 400

Activate a Grafana Enterprise license purchased through AWS Marketplace

AWS Marketplace is a convenient place for AWS customers to buy and manage a license for Grafana Enterprise versions 8.3.0 and later.

{{< section >}}

You can deploy Grafana Enterprise in the following ways:

- Using AWS services like ECS, EKS or EC2.
- In an instance outside AWS.

In each case, you must activate
 the Grafana Enterprise license purchased in AWS Marketplace to take advantage of Grafana Enterprise observability features. Grafana Enterprise licenses purchased through AWS Marketplace are subject to the same [restrictions](../#license-restrictions) as Grafana Enterprise licensed purchased directly from Grafana Labs.

> To purchase a license directly from Grafana Labs or learn more about other Grafana offerings, [Contact a Grafana Labs representative](/contact?about=grafana-enterprise).

Before you begin

Become an AWS customer. Only AWS customers have access to purchase services through AWS Marketplace. To learn more about becoming an AWS customer, refer to [Sign up for AWS](https://portal.aws.amazon.com/billing/signup#/start).
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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-instance-outside-aws/
description: Activate a Grafana Enterprise license from AWS on an instance deployed
outside of AWS
keywords:
- grafana
- enterprise
- aws
- marketplace

- activate
labels:
products:
  - enterprise
  - oss
title: Activate a Grafana Enterprise license from AWS on an instance deployed outside of AWS
weight: 300

Activate a Grafana Enterprise license from AWS on an instance deployed outside of AWS

While AWS Marketplace lists ECS and EKS as the supported environments for Grafana Enterprise, you can apply a Grafana Enterprise license from AWS Marketplace to any Grafana instance with network access to the AWS licensing service.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users, and create access policies.
- Be sure there is network access between AWS and the environment where you intend to run Grafana. Network access is required because your Grafana instance communicates with the [AWS License Manager endpoints and quotas](https://docs.aws.amazon.com/general/latest/gr/licensemanager.html) to retrieve license and subscription information. Grafana instances with access to the public internet will have access to AWS license manager.

To activate a Grafana Enterprise license from AWS on a Grafana Enterprise instance deployed outside of AWS, complete the following tasks.

Task 1: Install Grafana Enterprise

To install Grafana, refer to the documentation specific to your implementation.

- [Install Grafana](../../../../setup-grafana/installation/).
- [Run Grafana Docker image](../../../../setup-grafana/installation/docker/).
- [Deploy Grafana on Kubernetes](../../../../setup-grafana/installation/kubernetes/#deploy-grafana-enterprise-on-kubernetes).

Task 2: Create an AWS IAM user with access to your Grafana Enterprise license

To retrieve your license, Grafana Enterprise requires access to your AWS account and license information. To grant access, create an IAM user in AWS with access to the license, and pass its credentials as environment variables on the host or container where Grafana is running. These environment variables allow Grafana to retrieve license details from AWS.

1. In the AWS License Manager service, create an IAM policy with the following permissions:

- `"license-manager:CheckoutLicense"`
- `"license-manager:ListReceivedLicenses"`
- `"license-manager:GetLicenseUsage"`
- `"license-manager:CheckInLicense"`

For more information about creating a policy in AWS, refer to [Creating IAM policies](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create.html).

For more information about AWS Identity and Access Management, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

1. To limit the policy to obtain usage data just for Grafana Enterprise, in the **Resources** section of the policy, specify your license ARN.

You can find your license ID in the **Granted Licenses** section of [AWS License Manager](https://console.aws.amazon.com/license-manager/home).

The policy JSON should look similar to the following example:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
        "Sid": "VisualEditor0",
        "Effect": "Allow",
        "Action": "license-manager:GetLicenseUsage",
        "Resource": "arn:aws:license-manager::[YOUR_ACCOUNT]:license:[YOUR_LICENSE_ID]"
    },
    {
        "Sid": "VisualEditor1",
        "Effect": "Allow",
        "Action": [
          "license-manager:CheckoutLicense",
           "license-manager:ListReceivedLicenses",
          "license-manager:CheckInLicense"
        ],
        "Resource": "*"
    }
  ]
}
```

1. Create an IAM user and choose access key credentials as its authentication method.

For more information about creating an IAM user, refer to [IAM

users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

For more information about access key credentials, refer to [Managing access keys for IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html).

1. Attach the policy you created to the IAM user.

1. Add the following values as environment variables to the host or container running Grafana:

- AWS region
- IAM user's access key ID
- IAM user's secret access key

The environment variables should look similar to the following example:

```
AWS_ACCESS_KEY_ID=ABCD5E75FGHIJKTM7
AWS_SECRET_ACCESS_KEY=k8fhYAQVy+5NhCejhe6HeSjSphjRuy+12C06
 AWS_REGION=us-east-1
```

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

Choose one of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** In the `[enterprise]` section of the grafana.ini configuration file, add `license_validation_type=aws`.

 For example:

```
[enterprise]
license_validation_type=aws
```

- **Option 2:** Add the following environment variable to the container or host:

```
GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, start (or restart) Grafana.

For information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).

The icons contained in this solid icons folder were originally created
by [IconScout](https://github.com/Iconscout/unicons)
---
aliases:
 - ../admin/view-server-settings/
 - ../admin/view-server-stats/
 - view-server/
 - view-server/view-server-settings/
 - view-server/view-server-stats/
description: How to view server settings in the Grafana UI
keywords:
 - grafana
 - configuration
 - server
 - settings
labels:
 products:
   - cloud
   - enterprise
title: View server statistics and license
weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration](../../setup-grafana/configure-grafana/#configuration-file-location) file and any environmental
 variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration](../../setup-grafana/configure-grafana/#server).

View Grafana server stats

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu.
 For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
 Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
 Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations,
 then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1

The icons contained in this unicons icons folder were originally created by [IconScout](https://github.com/Iconscout/unicons)

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get its source. For example, if your program is
a web application, its
interface could display a "Source" link that leads users to an archive
of the code. There are many ways you could offer source, and different
solutions will be better for different programs; see section 13 for the
specific requirements.

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU AGPL, see
<https://www.gnu.org/licenses/>.
---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-ecs/
- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-ecs/
description: Activate a Grafana Enterprise license from AWS Marketplace on ECS
keywords:
- grafana
- ecs
- enterprise
- aws
- marketplace
- activate
labels:
products:

- enterprise
- oss
title: Activate a Grafana Enterprise license from AWS Marketplace on ECS
weight: 250

Activate a Grafana Enterprise license from AWS Marketplace on ECS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks.

Task 1: Deploy Grafana Enterprise on Amazon ECS

1. Deploy Grafana Enterprise on Amazon ECS.

   For more information about deploying an application on Amazon ECS, refer to [Creating an Amazon ECS service](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/create-service.html).

1. As you create the Amazon ECS service, use the Grafana Enterprise version 8.3.0 or later container image.

   For example, enter `grafana/grafana-enterprise:8.3.3`.

   > Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
  - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
  - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability:

1. In AWS ECS, use environment variables to update the `database` parameters.

  For a list of database parameters, refer to [Configuration](../../../../setup-grafana/configure-grafana/#database).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

  For more information about creating a task, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.
 Within the new revision, edit the Grafana Enterprise container for this task, and add the following environment variables to the container:

  ```
  GF_DATABASE_TYPE=[database type]
  GF_DATABASE_HOST=[database address and port]
  GF_DATABASE_NAME=[database name]
  GF_DATABASE_USER=[database username]
  GF_DATABASE_PASSWORD=[database password]
  ```

> For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, create an access policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

   For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

  For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Create an Elastic Container Service task role and attach the policy you created in the previous step.

  For more information about creating a task role, refer to [IAM Roles for

Tasks](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/task-iam-roles.html).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

  For more information about creating a revision of the task definition, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.
 Within the new revision, perform the following steps:

  a. Update the Task Role of your ECS Task to the role that you created, with permission to access license information.

  b. Edit the Grafana Enterprise container for this task, and add the following environment variable to the container:

  ```
  GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
  ```

  For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 4: Start or restart Grafana

1. To restart Grafana and activate your license, update the service running Grafana to use the latest revision of the task definition that you created.
1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate
 that your license is active.

For more information about validating that your license is active, refer to [Grafana Enterprise license restrictions](../../#grafana-enterprise-license-restrictions).
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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/transfer-ge-license/
- ../../../enterprise/license/activate-aws-marketplace-license/transfer-ge-license/
description: Transfer your AWS Marketplace Grafana Enterprise license
keywords:
- grafana
- enterprise
- aws
- marketplace
- transfer
- move
labels:
products:
- enterprise
- oss
title: Transfer your AWS Marketplace Grafana Enterprise license
weight: 400

Transfer your AWS Marketplace Grafana Enterprise license

You can transfer your AWS Marketplace Grafana Enterprise license to another Grafana Enterprise instance. The transfer process requires that you first remove your license from one instance, and then apply the license to another instance.

> When you remove an Enterprise license, the system immediately disables all Grafana Enterprise features.

To remove an Enterprise license from a Grafana Enterprise instance, perform one of the following steps:

- If you are using Amazon ECS or
Amazon EKS, remove the `GF_ENTERPRISE_LICENSE_VALIDATION_TYPE` environment variable from the container.
- If you have deployed Grafana Enterprise outside of AWS, remove the `aws` license_validation_type value from the grafana.ini configuration file.

It can take the system up to one hour to clear the license. After the system clears the license, you can apply the same license to another Grafana Enterprise instance.

To determine that the system has returned your license, check the license details in AWS License Manager.
---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-eks/

- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-eks/
description: Activate a Grafana Enterprise license from AWS Marketplace on EKS
keywords:
- grafana
- enterprise
- aws
- marketplace
- eks
- activate
labels:
products:
- enterprise
- oss
title: Activate a Grafana Enterprise license from AWS Marketplace on EKS
weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

   For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html).

   For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm Chart](https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme).

1. Use `kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>` to update the container image to Grafana Enterprise version 8.3.0 or later.

   For example, enter `grafana/grafana-enterprise:8.3.3`.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana
for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
- For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
- For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[database]
type = [database type]
host = [database address and port]
name = [database name]
user = [database username]
password = [database password]
```

- **Option 2:** use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following database variables:

```
- name: GF_DATABASE_TYPE
  value: [database type]
- name: GF_DATABASE_HOST
  value: [database address and port]
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high

availability](../../../../setup-grafana/set-up-for-high-availability/).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

  For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

  - **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

    ```
    [enterprise]
    license_validation_type=aws
    ```

  - **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

    ```
    name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
    value: aws
    ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,

1. Run the command `kubectl rollout restart deployment my-release`.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS troubleshooting](https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html).

1.5205 @grafana/runtime 10.4.19

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 - ../../enterprise/license/activate-aws-marketplace-license/
 - ../../enterprise/license/activate-aws-marketplace-license/about-ge-license-through-aws/
description: Activate your Grafana Enterprise license purchased in AWS Marketplace
 to take advantage of Grafana Enterprise observability features
keywords:
 - grafana
 - aws
 - marketplace
 - enterprise
 - license
labels:
 products:
   - enterprise
   - oss
title: Activate a Grafana Enterprise license purchased through AWS Marketplace
weight: 400
---

# Activate a Grafana Enterprise license purchased through AWS Marketplace

AWS Marketplace is a convenient place for AWS customers to buy and manage a license for Grafana Enterprise
versions 8.3.0 and later.

{{< section >}}

You can deploy Grafana Enterprise in the following ways:

- Using AWS services like ECS, EKS or EC2.
- In an instance outside AWS.

In each case, you must activate
```

the Grafana Enterprise license purchased in AWS Marketplace to take advantage of Grafana Enterprise observability features. Grafana Enterprise licenses purchased through AWS Marketplace are subject to the same [restrictions](../#license-restrictions) as Grafana Enterprise licensed purchased directly from Grafana Labs.

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Before you begin

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aliases:

- ../../../enterprise/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
- ../../../enterprise/license/activate-aws-marketplace-license/manage-license-in-aws-marketplace/
description: Manage your Grafana Enterprise license in AWS Marketplace
keywords:
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- enterprise
- aws
- marketplace
- manage
- add
- remove
- users
labels:
products:
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weight: 400

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- Remove active users
- Cancel your subscription to Grafana Enterprise.

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1. Open the AWS Console and navigate to [Subscription Management](https://console.aws.amazon.com/marketplace/home/subscriptions#/subscriptions).

1. Update your license.

1. Sign in to Grafana as a Server Administrator.

1. Click **Administration** in the side navigation menu, **General**, and then **Stats and license**.

1. In the **Token** section under **Enterprise License**, click **Renew token**.

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- activate
labels:
products:
- enterprise
- oss
title: Activate a Grafana Enterprise license from AWS on an instance deployed outside
of AWS
weight: 300

Activate a Grafana Enterprise license from AWS on an instance deployed outside of AWS

While AWS Marketplace lists ECS and EKS as the supported environments for Grafana Enterprise, you can apply a Grafana Enterprise license from AWS Marketplace to any Grafana instance with network access to the AWS licensing service.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users, and create access policies.
- Be sure there is network access between AWS and the environment where you intend to run Grafana. Network access is required because your Grafana instance communicates with the [AWS License Manager endpoints and quotas](https://docs.aws.amazon.com/general/latest/gr/licensemanager.html) to retrieve license and subscription information. Grafana instances with access to the public internet will have access to AWS license manager.

To activate a Grafana Enterprise license from AWS on a Grafana Enterprise instance deployed outside of AWS, complete the following tasks.

Task 1: Install Grafana Enterprise

To install Grafana, refer to the documentation specific to your implementation.

- [Install Grafana](../../../../setup-grafana/installation/).
- [Run Grafana Docker image](../../../../setup-grafana/installation/docker/).
- [Deploy Grafana on Kubernetes](../../../../setup-grafana/installation/kubernetes/#deploy-grafana-enterprise-on-kubernetes).

Task 2: Create an AWS IAM user with access to your Grafana Enterprise license

To retrieve your license, Grafana Enterprise requires access to your AWS account and license information. To grant access, create an IAM user in AWS with access to the license, and pass its credentials as environment variables on the host or container where Grafana is running. These environment variables allow Grafana to retrieve license details from AWS.

1. In the AWS License Manager service, create an IAM policy with the following permissions:

  - `"license-manager:CheckoutLicense"`
  - `"license-manager:ListReceivedLicenses"`
  - `"license-manager:GetLicenseUsage"`
  - `"license-manager:CheckInLicense"`

  For more information about creating a policy in AWS, refer to [Creating IAM policies](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create.html).

  For more information about AWS Identity and Access Management, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

1. To limit the policy to obtain usage data just for Grafana Enterprise, in the **Resources** section of the policy, specify your license ARN.

You can find your license ID in the **Granted Licenses** section of [AWS License Manager](https://console.aws.amazon.com/license-manager/home).

The policy JSON should look similar to the following example:

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
        "Sid": "VisualEditor0",
        "Effect": "Allow",
        "Action": "license-manager:GetLicenseUsage",
        "Resource": "arn:aws:license-manager::[YOUR_ACCOUNT]:license:[YOUR_LICENSE_ID]"
    },
    {
        "Sid": "VisualEditor1",
        "Effect": "Allow",
        "Action": [
          "license-manager:CheckoutLicense",
           "license-manager:ListReceivedLicenses",
          "license-manager:CheckInLicense"
        ],
        "Resource": "*"
    }
  ]
}
```

1. Create an IAM user and choose access key credentials as its authentication method.

For more information about creating an IAM user, refer to [IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_users.html).

For more information about access key credentials, refer to [Managing access keys for IAM users](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_access-keys.html).

1. Attach the policy you created to the IAM user.

1. Add the following values as environment variables to the host or container running Grafana:

- AWS region
- IAM user's access key ID
- IAM user's secret access key

The environment variables should look similar to the following example:

```
```

```
AWS_ACCESS_KEY_ID=ABCD5E75FGHIJKTM7
AWS_SECRET_ACCESS_KEY=k8fhYAQVy+5NhCejhe6HeSjSphjRuy+12C06
AWS_REGION=us-east-1
```

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

Choose one of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** In the `[enterprise]` section of the grafana.ini configuration file, add `license_validation_type=aws`.

  For example:

  ```
  [enterprise]
  license_validation_type=aws
  ```

- **Option 2:** Add the following environment variable to the container or host:

  ```
  GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
  ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, start (or restart) Grafana.

For information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).
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---
aliases:
 - ../admin/view-server-settings/
 - ../admin/view-server-stats/
 - view-server/
 - view-server/view-server-settings/
 - view-server/view-server-stats/
description: How to view server settings in the Grafana UI
keywords:
 - grafana
 - configuration
 - server
 - settings
labels:

products:
  - cloud
  - enterprise
title: View server statistics and license
weight: 400

View server statistics and license

This setting contains information about tools that Grafana Server Admins can use to learn more about their Grafana servers.

View Grafana server settings

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server administrator, use the Settings tab to view the settings that are applied to your Grafana server via the [Configuration](../../setup-grafana/configure-grafana/#configuration-file-location) file and any environmental
variables.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu. For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server settings

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Settings**.

Available settings

For a full list of server settings, refer to [Configuration](../../setup-grafana/configure-grafana/#server).

View Grafana server stats

> Refer to [Role-based access control](../roles-and-permissions/access-control/) in Grafana Enterprise to understand how you can control access with RBAC permissions.

If you are a Grafana server admin, then you can view useful statistics about your Grafana server in the Stats & Licensing tab.

> **Note:** Only Grafana server administrators can access the **Server Admin** menu.
For more information about about administrative permissions, refer to [Roles and permissions](../roles-and-permissions/#grafana-server-administrators).

View server stats

1. Log in to your Grafana server with an account that has the Grafana Admin flag set.
1. Click **Administration** in the left-side menu, **General**, and then **Stats and license**.

Available stats

The following statistics are displayed in the Stats tab:

- Total users
 Note: Total users = Total admins + Total editors + Total viewers
- Total admins
- Total editors
- Total viewers
- Active users (seen last 30 days)
 Note: Active users = Active admins + Active editors + Active viewers
- Active admins (seen last 30 days)
- Active editors (seen last 30 days)
- Active viewers (seen last 30 days)
- Active sessions
- Total dashboards
- Total orgs
- Total playlists
- Total snapshots
- Total dashboard tags
- Total starred dashboards
- Total alerts

Counting users

If a user belongs to several organizations,
 then that user is counted once as a user in the highest organization role they are assigned, regardless of how many organizations the user belongs to.

For example, if Sofia is a Viewer in two organizations, an Editor in two organizations, and Admin in three organizations, then she would be reflected in the stats as:

- Total users 1
- Total admins 1
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---
aliases:
- ../../../enterprise/activate-aws-marketplace-license/activate-license-on-ecs/
- ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-ecs/
description: Activate a Grafana Enterprise license from AWS Marketplace on ECS
keywords:
- grafana
- ecs
- enterprise
- aws
- marketplace
- activate
labels:
products:
  - enterprise
  - oss
title: Activate a Grafana Enterprise license from AWS Marketplace on ECS
weight: 250

Activate a Grafana Enterprise license from AWS Marketplace on ECS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks.

Task 1: Deploy Grafana Enterprise on Amazon ECS

1. Deploy Grafana Enterprise on Amazon ECS.

  For more information about deploying an application on Amazon ECS, refer to [Creating an Amazon ECS service](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/create-service.html).

1. As you create the Amazon ECS service, use the Grafana Enterprise version 8.3.0 or later container image.

  For example, enter `grafana/grafana-enterprise:8.3.3`.

  > Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
 - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
  - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability:

1. In AWS ECS, use environment variables to update the `database` parameters.

  For a list of database parameters, refer to [Configuration](../../../../setup-grafana/configure-grafana/#database).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

  For more information about creating a task, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1.
 Within the new revision, edit the Grafana Enterprise container for this task, and add the following environment variables to the container:

  ```
  GF_DATABASE_TYPE=[database type]
  GF_DATABASE_HOST=[database address and port]
  GF_DATABASE_NAME=[database name]
  ```

```
GF_DATABASE_USER=[database username]
GF_DATABASE_PASSWORD=[database password]
```

> For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, create an access policy with the following permissions:

   - `"license-manager:CheckoutLicense"`
   - `"license-manager:ListReceivedLicenses"`
   - `"license-manager:GetLicenseUsage"`
   - `"license-manager:CheckInLicense"`

   For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

   For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Create an Elastic Container Service task role and attach the policy you created in the previous step.

   For more information about creating a task role, refer to [IAM Roles for Tasks](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/task-iam-roles.html).

1. Create a revision of the task definition for the ECS Task that runs Grafana Enterprise.

   For more information about creating a revision of the task definition, refer to [Updating a task definition using the classic console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-task-definition.html).

1. Within the new revision, perform the following steps:

   a. Update the Task Role of your ECS Task to the role that you created, with permission to access license information.

   b. Edit the Grafana Enterprise container for this task, and add the following environment variable to the container:

   ```
   GF_ENTERPRISE_LICENSE_VALIDATION_TYPE=aws
   ```

For more information about how to update your ECS service with an environment variable, refer to [Updating a service using the new console](https://docs.aws.amazon.com/AmazonECS/latest/developerguide/update-service-console-v2.html).

Task 4: Start or restart Grafana

1. To restart Grafana and activate your license, update the service running Grafana to use the latest revision of the task definition that you created.
1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate
that your license is active.

For more information about validating that your license is active, refer to [Grafana Enterprise license restrictions](../../#grafana-enterprise-license-restrictions).
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aliases:
- ../../../enterprise/activate-aws-marketplace-license/transfer-ge-license/
- ../../../enterprise/license/activate-aws-marketplace-license/transfer-ge-license/
description: Transfer your AWS Marketplace Grafana Enterprise license
keywords:
- grafana
- enterprise
- aws
- marketplace
- transfer
- move
labels:

products:
  - enterprise
  - oss
title: Transfer your AWS Marketplace Grafana Enterprise license
weight: 400

Transfer your AWS Marketplace Grafana Enterprise license

You can transfer your AWS Marketplace Grafana Enterprise license to another Grafana Enterprise instance. The transfer process requires that you first remove your license from one instance, and then apply the license to another instance.

> When you remove an Enterprise license, the system immediately disables all Grafana Enterprise features.

To remove an Enterprise license from a Grafana Enterprise instance, perform one of the following steps:

- If you are using Amazon ECS or
 Amazon EKS, remove the `GF_ENTERPRISE_LICENSE_VALIDATION_TYPE` environment variable from the container.
- If you have deployed Grafana Enterprise outside of AWS, remove the `aws` license_validation_type value from the grafana.ini configuration file.

It can take the system up to one hour to clear the license. After the system clears the license, you can apply the same license to another Grafana Enterprise instance.

To determine that the system has returned your license, check the license details in AWS License Manager.
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aliases:
 - ../../../enterprise/activate-aws-marketplace-license/activate-license-on-eks/
 - ../../../enterprise/license/activate-aws-marketplace-license/activate-license-on-eks/
description: Activate a Grafana Enterprise license from AWS Marketplace on EKS
keywords:
 - grafana
 - enterprise
 - aws
 - marketplace
 - eks

- activate
labels:
products:
  - enterprise
  - oss
title: Activate a Grafana Enterprise license from AWS Marketplace on EKS
weight: 200

Activate a Grafana Enterprise license from AWS Marketplace on EKS

If you have purchased a Grafana Enterprise subscription through AWS Marketplace, you must activate it in order to use Grafana Enterprise data source plugins and features in Grafana.

Before you begin:

- Purchase a subscription to [Grafana Enterprise from AWS Marketplace](https://aws.amazon.com/marketplace/pp/prodview-dlncd4kzt5kx6).
- Be sure that the IAM user that was used to purchase Grafana Enterprise has permission to manage subscriptions, create new IAM users and roles, and create access policies.

To activate your license, complete the following tasks:

Task 1: Deploy Grafana Enterprise on Amazon EKS

1. Deploy Grafana Enterprise on Amazon EKS.

  For more information about deploying an application on Amazon EKS, refer to [Getting started with Amazon EKS AWS Management Console and AWS CLI](https://docs.aws.amazon.com/eks/latest/userguide/getting-started-console.html).

  For more information about installing Grafana on Kubernetes using the Helm Chart, refer to the [Grafana Helm Chart](https://github.com/grafana/helm-charts/tree/main/charts/grafana#readme).

1. Use `kubectl set image deployment/my-release grafana=grafana/grafana-enterprise:<version>` to update the container image to Grafana Enterprise version 8.3.0 or later.

  For example, enter `grafana/grafana-enterprise:8.3.3`.

> Only Grafana Enterprise versions 8.3.0 and later support licenses granted through AWS Marketplace.

Task 2: Configure Grafana for high availability

Grafana requires that you configure a database to hold dashboards, users, and other persistent data.

Before you begin

- Ensure that you have a supported Grafana database available.
 - For a list of supported databases, refer to [Supported databases](../../../../setup-grafana/installation/#supported-databases).
 - For information about creating a database, refer to [Creating an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/USER_CreateDBInstance.html).
- Review the information required to connect to the RDS DB instance. For more information, refer to [Connecting to an Amazon RDS DB instance](https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/CHAP_CommonTasks.Connect.html).

To configure Grafana for high availability, choose **one** of the following options:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

```
[database]
type = [database type]
 host = [database address and port]
name = [database name]
user = [database username]
password = [database password]
```

- **Option 2:** use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following database variables:

```
- name: GF_DATABASE_TYPE
  value: [database type]
- name: GF_DATABASE_HOST
  value: [database address and port]
- name: GF_DATABASE_NAME
  value: [database name]
- name: GF_DATABASE_USER
  value: [database username]
- name: GF_DATABASE_PASSWORD
  value: [database password]
```

For more information on Grafana High Availability setup, refer to [Set up Grafana for high availability](../../../../setup-grafana/set-up-for-high-availability/).

Task 3: Configure Grafana Enterprise to validate its license with AWS

In this task, you configure Grafana Enterprise to validate the license with AWS instead of Grafana Labs.

1. In AWS IAM, assign the following permissions to the Node IAM role (if you are

using a Node Group), or the Pod Execution role (if you are using a Fargate profile):

- `"license-manager:CheckoutLicense"`
- `"license-manager:ListReceivedLicenses"`
- `"license-manager:GetLicenseUsage"`
- `"license-manager:CheckInLicense"`

For more information about creating an access policy, refer to [Creating IAM policies (console)](https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies_create-console.html).

For more information about AWS license permissions, refer to [Actions, resources, and condition keys for AWS License Manager](https://docs.aws.amazon.com/service-authorization/latest/reference/list_awslicensemanager.html).

1. Choose **one** of the following options to update the [license_validation_type](../../../../setup-grafana/configure-grafana/enterprise-configuration/#license_validation_type) configuration to `aws`:

- **Option 1:** Use `kubectl edit configmap grafana` to edit `grafana.ini` add the following section to the configuration:

  ```
  [enterprise]
  license_validation_type=aws
  ```

- **Option 2:** Use `kubectl edit deployment my-release` to edit the pod `env` variables and add the following variable:

  ```
  name: GF_ENTERPRISE_LICENSE_VALIDATION_TYPE
  value: aws
  ```

Task 4: Start or restart Grafana

To activate Grafana Enterprise features, you must start (or restart) Grafana.

To restart Grafana on a Kubernetes cluster,

1. Run the command `kubectl rollout restart deployment my-release`.

1. After you update the service, navigate to your Grafana instance, sign in with Grafana Admin credentials, and navigate to **Administration > General > Stats and license** to validate that your license is active.

For more information about restarting Grafana, refer to [Restart Grafana](../../../../setup-grafana/start-restart-grafana/).

> If you experience issues when you update the EKS cluster, refer to [Amazon EKS

troubleshooting](https://docs.aws.amazon.com/eks/latest/userguide/troubleshooting.html).

1.5208 @grafana/data 10.4.19

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Jan Holmberg, <jan@artech.net> :
 o Memory framework
 o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au> :
 o MISC checker redesign
 o Scheduler framework extension to support
   child process handling.
 o Daemon framework extension to block SIGCHLD
   to only receive it when its unblocked in the
   scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu> :
 o Added SMTP checker

Chris Caputo, <ccaputo@alt.net> :
o Added dont_track_primary, nopreempt,
preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com> :
o Fixed shadowed declaration reported by -Wshadow.
o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com> :
o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu> :
o Extended VRRP framework to support floating
priority.

1.5213 fuse 2.9.9-8.1build1

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not effectively promote software
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concluded that weaker conditions might promote sharing better.

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1.5218 stress 1.0.7-1

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1.5219 libxml-xpath-perl 1.48-1

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1.5220 k8s-io-apimachinery 0.30.14

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1.5222 python-watchdog 3.0.0-1

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1.5223 go-restful 3.12.2

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1.5224 k8s-io-client-go 0.30.14

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interface to it. It contains some functions which are useful for quoting
strings which are going to pass through the shell or a shell-like object. It
is useful for doing robust tool programming, particularly when dealing with
files whose names contain white space or shell globbing characters.

To build it, run:

```
perl Makefile.PL
make
make test
make install
```

For more detailed instructions see "man perlmodinstall", "perldoc
perlmodinstall", or http://www.cpan.org/modules/INSTALL.html.

The documentation is embeded in the module, use

```
perldoc ShellQuote.pm
```

to read it before installation.

Roderick Schertler <roderick@argon.org>

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$Id: README,v 1.4 2005/05/03
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1.5228 libewf 20140814-1build3

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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables
containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse

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The End

http://www.spinwardstars.com/frontier/fal.html
As an open source project, Netpbm has been written and otherwise supported by
myriad people from all over. Most of them have made isolated contributions
such as a single program, a single new feature, or a single bug fix. To save
clerical effort, we do not list them here and instead refer you to the HISTORY
file. This file lists people who have made broad contributions that wouldn't
be well summarized by the HISTORY file.

Jef Poskanzer had the original idea for what is now Netpbm and wrote dozens of
programs and the original library code, as well as inventing and designing the
PNM formats and writing documentation. Jef's code contributions stopped in
1991 and because of rewrites, there is not much of Jef's code still remaining,
with what does remain being mostly obsolete. Nonetheless, the impact of that
original code is enormous, as everything in Netpbm today is derived in some
way from Jef's work.

Bryan Henderson has been maintaining Netpbm since 1999 and has written more
code,

in lines, than anyone else. Most of that is just rewriting old code in
a more maintainable style. But Bryan has also fixed more bugs than anyone,
since the normal bug reporting procedure is to tell the maintainer, and Bryan
normally fixes bugs reported that way himself. Bryan has also added many
features and whole programs at the suggestion of users. Bryan has written
most of the documentation, whether by writing manuals for programs whose
authors declined to do so or by rewriting manuals to make them more clear when
users had trouble using Netpbm.

Akira F Urushibata has made myriad contributions since 2004. Much of the PBM
processing code is his, as he rewrote existing programs to be much faster, in
particular by using special bit-processing machine instructions. He also
created the entire test framework and regression test suite and runs those
regression tests and other tests regularly, and often develops fixes for the
bugs found. Nobody else has done significant alpha testing
of Netpbm except
where developers have done it to test code they just wrote. This testing has
turned up many bugs in code going all the way back to 1989.

Scott Pakin has contributed numerous programs over the years including the
fairly significant work 'pamstereogram'.
Many of the source files for Pamx contain code written by or derived
from code written by Jim Frost for his program Xloadimage. The files
in which Frost has copyright contain Frost's name at the top. Frost
licenses his copyright to the public as follows:

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The rest of the code was primarily written by Bryan Henderson,
starting in 2006. Bryan and other authors have contributed their work

to the public domain.

Here is a more or less complete list of people who contributed to
the Xloadimage from which Pamx was derived. The list is from the README
file in the Xloadimage source code:

Special thanks to the crew at the Boston University Graphics Lab for
their assistance and sample images, and to bzs@std.com for his simple
dithering algorithm (or what's left of it). Real special thanks to
Kirk L. Johnson (tuna@athena.mit.edu) for a very nice GIF loader and
dithering routine, to Mark Snitily (zok!mark@apple.com) for 386/ix
compatibility work, to Andreas Stolcke (stolcke@icsib12.berkeley.edu)
for
miscellaneous bug fixes, to Anthony A. Datri (datri@convex.com)
for a number of things, to Mark Moraes (moraes@cs.toronto.edu) for
the slideshow colormap fix, to Gregg Townsend (gmt@cs.arizona.edu) for
a suggested dithering routine and other fixes, to Brian Frost
(B1F5814@RIGEL.TAMU.EDU) for changes for VMS, to Chip Horstman for G3
FAX support, to Deron Dann Johnson (dj@eng.sun.com) for fixing the
RetainTemporary bug, to Tom Tatlow (tatlow@dash.enet.dec.com) for
image rotation code, to Mark A. Horstman (mhorstm@sarek.sbc.com) for
tilde expansion in .xloadimagerc files and virtual-root support in
root.c, to Tim Roper (timr@labtam.labtam.oz.au), Graeme Gill
(graeme@labtam.oz.au) for gamma correction and Utah RLE image support,
Mark Majhor (uunet!sequent!markm) for FBM and MacPaint support, Ian
MacPhedran (macphed@dvinci.usask.ca) for PGM and PPM support, Per
Fogelstrom (pf@diab.se) for a fix to send.c, Hans J. Albertsson
(hans@Sweden.Sun.COM) for cleaning up GIF aborting, Graham Hudspith
(gwh@inmos.com)
for a geometry patch, Glenn P. Davis
(davis@unidata.ucar.edu) for McIDAS areafile support, Keith S. Pickens
(maxwell.nde.swri.edu!ksp) for fixing the RLE loader to work with the
updated zio package, Mike Douglas (douglas@wilbur.coyote.trw.com) for
normalization, Rod Johnson (johnson@wrl.epi.com) for speedup
suggestions, Hal Peterson (hrp@cray.com) for his Imakefile fix, Matt
Caprile (Matthew.Caprile@ec.bull.fr) for slideshow delay code, Bob
Deroy (rwd@bucrsb.bu.edu) for mondo 24-bit Sun Rasterfile images that
broke everything, Christos S. Zoulas (christo@ee.cornell.edu) for a
first-cut 24-bit implementation, Gerald James Barnes
(gjb@oasis.icl.stc.co.uk) for a first-cut forced-visual
implementation, Michael Campanella (campanella@cvg.enet.dec.com) for
more VMS changes, Kee Hinckley (nazgul@alfalfa.com) for robustness
changes to the g3 and MacPaint loaders and the ZIO package, Tim
Northrup (tim@brspyr1.brs.com) for PC Paintbrush and GEM image
formats, Richard Weidner (richard@elroy.jpl.nasa.gov)
for lots of
24-bit testing, Eckhard Rueggeberg (erueg@cfgauss.uni-math.gwdg.de)

for a better PCX loader, and any others whose names I've missed.

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pbmtopsg3: (C) 2001 Kristof Koehler <kristof@fachschaft.physik.uni-karlsruhe.de>
pbmtoptx: (A) 1988 Jef Poskanzer
pbmtowbmp:
(A) 1999 Terje Sannum <terje@looplab.com>
pbmtox10bm: (A) 1988 Jef Poskanzer
pbmtoxbm: (A) 1988 Jef Poskanzer
pbmtoybm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pbmtozinc: (A) 1988 James Darrell McCauley <jdm5548@diamond.tamu.edu>, Jef Poskanzer
pbmupc: (A) 1988 Jef Poskanzer
pcxtoppm: (A) 1990 Michael Davidson

pgmbentley: (A) 1990 Wilson Bent <whb@hoh-2.att.com>
pgmcrater: (H) 1989 John Walker <kelvin@autodesk.com>
pgmedge: (A) 1989 Jef Poskanzer
pgmenhance: (A) 1989-1991 Jef Poskanzer
pgmhist: (A) 1989 Jef Poskanzer
pgmkernel: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pgmnoise: (A) 1993 Frank Neumann
pgmnorm: (A) 1989-1991 Jef Poskanzer
pgmramp: (A) 1989 Jef Poskanzer
pgmslice: (C) 2000 Jos Dingjan <jos@tuatha.org>
pgmtexture: (A) 1991 Texas Agricultural Experiment Station, James Darrell McCauley
pgmtofs: (A) 1991 Jef Poskanzer
pgmtolispm: (A) 1991 Jamie Zawinski and Jef Poskanzer
pgmtopbm: (A) 1989 Jef Poskanzer
pgmtoppm: (A) 1991 Jef Poskanzer
pi1toppm: (A) 1991 Steve Belczyk <seb3@gte.com> and Jef Poskanzer
pi3topbm: (A) 1988 David Beckemeyer and Diomidis D. Spinellis
picttoppm: (A) 1989-1993 George Phillips <phillips@cs.ubc.ca>
pjtoppm: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
pngtopnm: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
pnmalias: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pnmarith: (A) 1989-1991 Jef Poskanzer
pnmcat: (A) 1989-1991 Jef Poskanzer
pnmcomp: (A) 1992 David Koblas
pnmconvol: (A) 1989-1995 Jef Poskanzer, Mike Burns <burns@chem.psu.edu>
pnmcrop: (A) 1988 Jef Poskanzer
pnmcut: (A) 1989 Jef Poskanzer
pnmdepth: (A) 1989-1991 Jef Poskanzer
pnmenlarge: (A) 1989 Jef Poskanzer
pnmfile: (A) 1991 Jef Poskanzer
pnmflip: (A) 1989 Jef Poskanzer
pnmgamma: (A) 1991 Jef Poskanzer and Bill Davidson
pnmhisteq: (H) 1995 John Walker <kelvin@fourmalib.ch>
pnmhistmap: (A) 1993 Wilson H. Bent, Jr <whb@usc.edu>
pnmindex: (A) 1991 Jef Poskanzer
pnminterp: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com>
pnminterp-gen: (C) 1998-2000 Russell Marks <russell.marks@ntlworld.com>
pnminvert: (A) 1989 Jef Poskanzer
pnmmargin: (A) 1991 Jef Poskanzer
pnmmontage: (A) 2000 Ben Olmstead
pnmnlfilt: (A) 1993 Graeme W. Gill <graeme@labtam.oz.au>
pnmnoraw: (A) 1991 Jef Poskanzer
pnmpad: (A) 1989-1990 Jef Poskanzer, Angus Duggan
pnmpaste: (A) 1989 Jef Poskanzer
pnmpsnr: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>

pnmrotate: (A) 1989-1991 Jef Poskanzer
pnmscale: (A) 1989-1991 Jef Poskanzer
pnmscalefixed:
(A) 1989-1991 Jef Poskanzer
pnmshear: (A) 1989-1991 Jef Poskanzer
pnmsmooth: (A) 1984 Mike Burns <burns@chem.psu.edu>
pnmsplit: (?) 2000 Bryan Henderson <bryanh@giraffe-data.com>
pnmtile: (A) 1989 Jef Poskanzer
pnmtoddif: (A) 1992 Digital Equipment Corporation, Burkhard Neidecker-Lutz
pnmtofiasco: (C) 1994-2000 Ullrich Hafner <hafner@bigfoot.de>
pnmtofits: (C) 1989 Wilson H. Bent <whb@hoh-2.att.com>
pnmtojbig: (C) 2000 Markus Kuhn <mkuhn@acm.org>
pnmtojpeg: (D) 1991-2001 Thomas G. Lane, Bryan Henderson
pnmtopalm: (A) 1995-2000 Ian Goldberg, Bill Janssen
pnmtoplainpnm: (A) 1991 Jef Poskanzer
pnmtopng: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
pnmtops: (A) 1989 Jef Poskanzer
pnmtorast: (A) 1989-1991 Jef Poskanzer
pnmtorle: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtosgi:
(A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmtosir: (A) 1991 Marvin Landis
pnmtotiff: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
pnmtotiffcmyk: (C) 1999 Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtoxwd: (A) 1989-1991 Jef Poskanzer
ppm3d: (A) 1989 Jef Poskanzer
ppmbrighten: (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange: (A) 1991 Wilson H. Bent, Jr
ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmcolormask: (?) 2000 Bryan Henderson <bryanh@giraffe-data.com>
ppmdim: (A) 1993 Frank Neumann
ppmdist: (A) 1993 Dan Stromberg
ppmdither: (A) 1991 Christos Zoulas
ppmfade: (?) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
ppmflash: (A) 1993 Frank Neumann
ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
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ppmquant: (A) 1989-1991 Jef Poskanzer
ppmquantall: (A) 1991 Jef Poskanzer
ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>

ppmrainbow: (A) 2001 Arjen Bax, Bryan Henderson
ppmrelief: (A) 1990 Wilson H. Bent, Jr
ppmshadow: (G) 1997 John Walker <kelvin@fourmilab.ch>
ppmshift: (A) 1993 Frank Neumann
ppmspread: (A) 1993 Frank Neumann
ppmtoacad: (H) 1991 John Walker <kelvin@autodesk.com>
ppmtobmp: (A) 1992 David W. Sanderson
ppmtoeyuv: (B) 1995 The Regents of the University of California
ppmtoicr: (A) 1990 Kanthan Pillay <svpillay@Princeton.EDU>
ppmtoilbm:
(A) 1989 Jef Poskanzer
ppmtoleaf: (A) 1994 Bill O'Donnell
ppmtolj: (A) 2000 Jonathan Melvin <jonathan.melvin@heywood.co.uk>
ppmtomap: (A) 1989 Jef Poskanzer
ppmtomitsu: (A) 1992-1993 S.Petra Zeidler
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ppmtoneo: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
ppmtopcx: (B) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
ppmtopgm: (A) 1989 Jef Poskanzer
ppmtopi1: (A) 1991 Jef Poskanzer and Steve Belczyk
ppmtopict: (A) 1990 Ken Yap <ken@cs.rochester.edu>
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ppmtorgb3: (A) 1991 Jef Poskanzer
ppmtosixel: (A) 1991 Rick Vinci
ppmtotga: (A) 1989-1991 Mark Shand and Jef Poskanzer
ppmtouil: (A) 1990 Mark W. Snitily, Jef Poskanzer
ppmtowinicon: (A) 2000 Lee Benfield <lee@recoil.org>
ppmtoxpm:
(A) 1990 Mark W. Snitily
ppmtoyuv: (A) 1987-1991 Abekas Video Systems Inc, DHD PostImage Inc
ppmtoyuvsplit: (A) 1993 Andre Beck <Andre_Beck@IRS.Inf.TU-Dresden.de>
ppmtv: (A) 1993 Frank Neumann
psidtopgm: (A) 1989 Jef Poskanzer
pstopnm: (I) 1992 Smithsonian Astrophysical Observatory, Alberto Accomazzi
qrttoppm: (A) 1989 Jef Poskanzer
rasttopnm: (A) 1989-1991 Jef Poskanzer
rawtopgm: (A) 1989 Jef Poskanzer
rawtoppm: (A) 1991 Jef Poskanzer
rgb3toppm: (A) 1991 Jef Poskanzer
rletopnm: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
sbigtopgm: (A) 1998 John Walker
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sirtopnm: (A) 1991 Marvin Landis
sldtoppm: (H) 1991 John Walker <kelvin@autodesk.com>
spctoppm: (A) 1991 Jef Poskanzer and Steve Belczyk
sputoppm: (A) 1991 Jef

Poskanzer and Steve Belczyk
tgatoppm: (A) 1989 Jef Poskanzer
tifftopnm: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
thinkjettopbm: (A) 2001 W. Eric Norum <eric.norum@usask.ca>
wbmptopbm: (A) 1999 Terje Sannum <terje@looplab.com>
winicontoppm: (A) 2000 Lee Benfield <lee@recoil.org>
xbmtopbm: (A) 1988 Jef Poskanzer
ximtoppm: (A) 1991 Jef Poskanzer
xpmtoppm: (A) 1991 Jef Poskanzer
xvminitoppm: (A) 1993 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
xwdtopnm: (A) 1989-1991 Jef Poskanzer
ybmtopbm: (A) 1988 Jamie Zawinski and Jef Poskanzer
yuvsplittoppm: (A) 1993 Marcel Wijkstra <wijkstra@fwi.uva.nl>
yuvtoppm: (A) 1987-1991 Jef Poskanzer, Abekas Video Systems Inc., DHD PostImage Inc.
zeisstopnm: (A) 1993 Oliver Trepte <oliver@fysik4.kth.se>

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ppmtogif: (A) 1989 Jef Poskanzer

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Bryan Henderson derived it in April 2005. Bryan mainly just split it up
into manageable pieces and replaced the parts that generate Netpbm formats
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1.5232 libldm 0.2.5-1.1build2

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1.5236 fluxcd-kustomize-controller-api 1.6.1

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1.5237 k8s-io-api 0.30.14

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procfs provides functions to retrieve system, kernel and process
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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:

* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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tomb - support for clean goroutine termination in Go.

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1.5241 luajit 2.1.1753234097

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1.5242 kubernetes-apimachinery 0.30.14

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1.5243 github.com/operator-framework/ansible-operator-plugins 1.39.0

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1.5248 kubernetes-client 0.30.14

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* 'Local' prefix added to all structs.
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tomb - support for clean goroutine termination in Go.

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```
   714 Dec  8  2006 .
 29821 Dec  1  2006 ./aimage/aimage.cpp
  2319 Nov 18  2006 ./aimage/aimage.h
 14399 Oct 20  2006 ./aimage/aimage_os.cpp
 13961 Nov 21  2006 ./aimage/gui.cpp
   231 Oct 20  2006 ./aimage/gui.h
  8087 Nov 15  2006 ./aimage/ident.cpp
  1719 Oct 20  2006 ./aimage/ident.h
 23327 Nov 25  2006 ./aimage/imager.cpp
  3729 Nov 25  2006 ./aimage/imager.h
```

```
     301 Nov  8  2006 ./aimage/Makefile.am
   13466 Dec  8  2006 ./aimage/Makefile.in
     461 Dec  8  2006 ./AUTHORS
   26608 Nov 28  2006 ./ChangeLog
    7765 Dec  8  2006 ./config.h.in
  427990 Dec  8  2006 ./configure
    5351 Dec  8  2006 ./configure.ac
    1909 Oct 19  2006 ./COPYING
   15205 Oct 20  2006 ./depcomp
     152 Oct 22  2006 ./INSTALL
    9212 Oct 20  2006 ./install-sh
    1292 Dec  8  2006 ./lib
    4831 Nov 15  2006 ./lib/aff_db.cpp
     105 Oct
19  2006 ./lib/aff_db.h
    2517 Nov 15  2006 ./lib/aff_toc.cpp
   12907 Nov 25  2006 ./lib/afflib.cpp
   17363 Nov 25  2006 ./lib/afflib.h
   11721 Nov 25  2006 ./lib/afflib_i.h
    3932 Dec  1  2006 ./lib/afflib_os.cpp
   18713 Nov 25  2006 ./lib/afflib_pages.cpp
    9462 Nov 25  2006 ./lib/afflib_stream.cpp
    5725 Nov 15  2006 ./lib/afflib_util.cpp
    1925 Nov 15  2006 ./lib/aftimer.cpp
     836 Oct 31  2006 ./lib/aftimer.h
   10819 Oct 20  2006 ./lib/base64.cpp
     692 Oct 19  2006 ./lib/base64.h
    4652 Nov 15  2006 ./lib/lzma_glue.cpp
    1978 Nov  1  2006 ./lib/Makefile.am
   73313 Dec  8  2006 ./lib/Makefile.in
   12649 Dec  8  2006 ./lib/s3.cpp
   19190 Dec  7  2006 ./lib/s3_glue.cpp
    3841 Dec  1  2006 ./lib/s3_glue.h
   14470 Nov 27  2006 ./lib/vnode_afd.cpp
      98 Oct 19  2006 ./lib/vnode_afd.h
   17078 Nov 21  2006 ./lib/vnode_aff.cpp
   13654 Dec  6  2006 ./lib/vnode_afm.cpp
      76 Oct 19  2006
./lib/vnode_afm.h
    7305 Nov 15  2006 ./lib/vnode_evd.cpp
      54 Oct 19  2006 ./lib/vnode_evd.h
   47317 Nov 15  2006 ./lib/vnode_evf.cpp
    8156 Oct 19  2006 ./lib/vnode_evf.h
    7301 Nov 15  2006 ./lib/vnode_raw.cpp
     156 Oct 19  2006 ./lib/vnode_raw.h
    8371 Nov 25  2006 ./lib/vnode_s3.cpp
      52 Oct 19  2006 ./lib/vnode_s3.h
   17982 Dec  6  2006 ./lib/vnode_split_raw.cpp
```

```
   84 Oct 19  2006 ./lib/vnode_split_raw.h
  690 Nov 27  2006 ./Makefile.am
18908 Dec  8  2006 ./Makefile.in
10678 Oct 20  2006 ./missing
  333 Nov 18  2006 ./NEWS
 9977 Oct 19  2006 ./README
  578 Dec  8  2006 ./tools
 9067 Nov 28  2006 ./tools/afcat.cpp
22564 Nov 28  2006 ./tools/afcompare.cpp
19102 Nov 28  2006 ./tools/afconvert.cpp
14755 Nov 28  2006 ./tools/afcopy.cpp
 4216 Nov 28  2006 ./tools/affix.cpp
16266 Nov 28  2006 ./tools/afinfo.cpp
 7498 Nov 28  2006 ./tools/afsegment.cpp
 5044 Nov 28  2006 ./tools/afstats.cpp
 6573 Nov 28  2006 ./tools/afxml.cpp
  502 Nov 14  2006 ./tools/Makefile.am
17176 Dec  8  2006 ./tools/Makefile.in
  382 Oct 20  2006 ./tools/quads.cpp
  116 Oct 20  2006 ./tools/quads.h
  541 Nov 21  2006 ./tools/utils.cpp
 1004 Nov 14  2006 ./tools/utils.h
```

1.5258 u-boot 2010.06

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1.5259 github.com/projectcalico/calico 3.29.5

1.5259.1 Available under license :

```
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2023 Tigera, Inc. All rights reserved.
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#ifndef __CALI_NAT4_H__
#define __CALI_NAT4_H__
```

```
#include <stddef.h>

#include <linux/if_ether.h>
#include <linux/udp.h>

#include "bpf.h"
#include "skb.h"
#include "routes.h"
#include "nat_types.h"

/* Number of bytes we add to a packet when we do encap. */
#define VXLAN_ENCAP_SIZE (sizeof(struct ethhdr) + sizeof(struct iphdr) + \
    sizeof(struct udphdr) + sizeof(struct vxlanhdr))

static CALI_BPF_INLINE int vxlan_encap(struct cali_tc_ctx *ctx,  __be32 *ip_src, __be32 *ip_dst, __u16
src_port)
{
 int ret;
 __wsum csum;

 __u32 new_hdrsz = sizeof(struct ethhdr) + sizeof(struct iphdr) +
   sizeof(struct udphdr) + sizeof(struct vxlanhdr);

 ret = bpf_skb_adjust_room(ctx->skb, new_hdrsz, BPF_ADJ_ROOM_MAC,
        BPF_F_ADJ_ROOM_ENCAP_L4_UDP |
        BPF_F_ADJ_ROOM_ENCAP_L3_IPV4 |
        BPF_F_ADJ_ROOM_ENCAP_L2(sizeof(struct ethhdr)));

 if
 (ret) {
  goto out;
 }

 ret = -1;

 if (skb_refresh_validate_ptrs(ctx, new_hdrsz)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("Too short VXLAN encap\n");
  goto out;
 }

 // Note: assuming L2 packet here so this code can't be used on an L3 device.
 struct udphdr *udp = (struct udphdr*) ((void *)ip_hdr(ctx) + IP_SIZE);
 struct vxlanhdr *vxlan = (void *)(udp + 1);
 struct ethhdr *eth_inner = (void *)(vxlan+1);
 struct iphdr *ip_inner = (void*)(eth_inner+1);
```

```
 /* Copy the original IP header. Since it is already DNATed, the dest IP is
  * already set. All we need to do is to change the source IP
  */
 *ip_hdr(ctx) = *ip_inner;

 /* decrement TTL for the inner IP header. TTL must be > 1 to get here */
 ip_dec_ttl(ip_inner);

 ip_hdr(ctx)->saddr = *ip_src;
 ip_hdr(ctx)->daddr = *ip_dst;
 ip_hdr(ctx)->tot_len = bpf_htons(bpf_ntohs(ip_hdr(ctx)->tot_len) + new_hdrsz);
 ip_hdr(ctx)->ihl = 5; /* in case there were options in ip_inner */
 ip_hdr(ctx)->check = 0;
 ip_hdr(ctx)->protocol
 = IPPROTO_UDP;

 udp->source = bpf_htons(src_port);
 udp->dest = bpf_htons(VXLAN_PORT);
 udp->len = bpf_htons(bpf_ntohs(ip_hdr(ctx)->tot_len) - sizeof(struct iphdr));

 *((__u8*)&vxlan->flags) = 1 << 3; /* set the I flag to make the VNI valid */
 vxlan->vni = bpf_htonl(CALI_VXLAN_VNI) >> 8; /* it is actually 24-bit, last 8 reserved */

 /* keep eth_inner MACs zeroed, it is useless after decap */
 eth_inner->h_proto = eth_hdr(ctx)->h_proto;

 CALI_DEBUG("vxlan encap %x : %x\n", bpf_ntohl(ip_hdr(ctx)->saddr), bpf_ntohl(ip_hdr(ctx)->daddr));

 /* change the checksums last to avoid pointer access revalidation */

 csum = bpf_csum_diff(0, 0, ctx->ip_header, sizeof(struct iphdr), 0);
 ret = bpf_l3_csum_replace(ctx->skb, ((long) ctx->ip_header) - ((long) skb_start_ptr(ctx->skb)) +
     offsetof(struct iphdr, check), 0, csum, 0);

out:
 return ret;
}

static CALI_BPF_INLINE int vxlan_decap(struct __sk_buff *skb)
{
 __u32 extra_hdrsz;
 int ret = -1;

 extra_hdrsz = sizeof(struct
 ethhdr) + sizeof(struct iphdr) +
  sizeof(struct udphdr) + sizeof(struct vxlanhdr);

 ret = bpf_skb_adjust_room(skb, -extra_hdrsz, BPF_ADJ_ROOM_MAC | BPF_F_ADJ_ROOM_FIXED_GSO, 0);
```

```
 return ret;
}

static CALI_BPF_INLINE bool vxlan_size_ok(struct cali_tc_ctx *ctx)
{
 return !skb_refresh_validate_ptrs(ctx, UDP_SIZE + sizeof(struct vxlanhdr));
}

static CALI_BPF_INLINE __u32 vxlan_vni(struct cali_tc_ctx *ctx)
{
 struct vxlanhdr *vxlan;

 vxlan = skb_ptr_after(skb, udp_hdr(ctx));

 return bpf_ntohl(vxlan->vni << 8); /* 24-bit field, last 8 reserved */
}

static CALI_BPF_INLINE bool vxlan_vni_is_valid(struct cali_tc_ctx *ctx)
{
 struct vxlanhdr *vxlan;

 vxlan = skb_ptr_after(ctx->skb, udp_hdr(ctx));

 return *((__u8*)&vxlan->flags) & (1 << 3);
}

#endif /* __CALI_NAT4_H__ */
```

<picture>
 <source media="(prefers-color-scheme: dark)" srcset="assets/libbpf-logo-sideways-darkbg.png" width="40%">
 <img src="assets/libbpf-logo-sideways.png" width="40%">
</picture>

libbpf
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======

This is the official home of the libbpf library.

*Please use this Github
 repository for building and packaging libbpf
and when using it in your projects through Git submodule.*

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source
tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under
`tools/lib/bpf` subdirectory and is periodically synced to Github. As such, all the
libbpf changes should be sent to [BPF mailing list](http://vger.kernel.org/vger-lists.html#bpf),
please don't open PRs here unless you are changing Github-specific parts of libbpf
(e.g., Github-specific Makefile).

Libbpf and general BPF usage questions
==========

Libbpf documentation can be found [here](https://libbpf.readthedocs.io/en/latest/api.html).
It's an ongoing effort and has ways to go, but please take a look and consider contributing as well.

Please check out [libbpf-bootstrap](https://github.com/libbpf/libbpf-bootstrap)
and [the companion blog post](https://nakryiko.com/posts/libbpf-bootstrap/)
 for
the examples of building BPF applications with libbpf.
[libbpf-tools](https://github.com/iovisor/bcc/tree/master/libbpf-tools) are also
a good source of the real-world libbpf-based tracing tools.

See also ["BPF CO-RE reference guide"](https://nakryiko.com/posts/bpf-core-reference-guide/)
for the coverage of practical aspects of building BPF CO-RE applications and
["BPF CO-RE"](https://nakryiko.com/posts/bpf-portability-and-co-re/) for
general introduction into BPF portability issues and BPF CO-RE origins.

All general BPF questions, including kernel functionality, libbpf APIs and
their application, should be sent to bpf@vger.kernel.org mailing list. You can
subscribe to it [here](http://vger.kernel.org/vger-lists.html#bpf) and search
its archive [here](https://lore.kernel.org/bpf/). Please search the archive
before asking new questions. It very well might be that this was already
addressed or answered before.

bpf@vger.kernel.org is monitored by many more people and they will
 happily try
to help you with whatever issue you have. This repository's PRs and issues
should be opened only for dealing with issues pertaining to specific way this
libbpf mirror repo is set up and organized.

Building libbpf
==========
libelf is an internal dependency of libbpf and thus it is required to link
against and must be installed on the system for applications to work.
pkg-config is used by default to find libelf, and the program called can be
overridden with `PKG_CONFIG`.

If using `pkg-config` at build time is not desired, it can be disabled by
setting `NO_PKG_CONFIG=1` when calling make.

To build both static libbpf.a and shared libbpf.so:
```bash
$ cd src
$ make
```

To build only static libbpf.a library in directory
build/ and install them together with libbpf headers in a staging directory
root/:
```bash
$ cd src
$ mkdir build root
$ BUILD_STATIC_ONLY=y OBJDIR=build DESTDIR=root make install
```

To build both static libbpf.a and shared libbpf.so against a custom libelf
dependency
 installed in /build/root/ and install them together with libbpf
headers in a build directory /build/root/:
```bash
$ cd src
$ PKG_CONFIG_PATH=/build/root/lib64/pkgconfig DESTDIR=/build/root make install
```

BPF CO-RE (Compile Once Run Everywhere)
==========

Libbpf supports building BPF CO-RE-enabled applications, which, in contrast to
[BCC](https://github.com/iovisor/bcc/), do not require Clang/LLVM runtime
being deployed to target servers and doesn't rely on kernel-devel headers
being available.

It does rely on kernel to be built with [BTF type
information](https://www.kernel.org/doc/html/latest/bpf/btf.html), though.
Some major Linux distributions come with kernel BTF already built in:
 - Fedora 31+
 - RHEL 8.2+
 - OpenSUSE Tumbleweed (in the next release, as of 2020-06-04)
 - Arch Linux (from kernel 5.7.1.arch1-1)
 - Manjaro (from kernel 5.4 if compiled after 2021-06-18)
 - Ubuntu 20.10
 - Debian 11 (amd64/arm64)

If your kernel

doesn't come with BTF built-in, you'll need to build custom
kernel. You'll need:
- `pahole` 1.16+ tool (part of `dwarves` package), which performs DWARF to
  BTF conversion;
- kernel built with `CONFIG_DEBUG_INFO_BTF=y` option;
- you can check if your kernel has BTF built-in by looking for
  `/sys/kernel/btf/vmlinux` file:

```shell
$ ls -la /sys/kernel/btf/vmlinux
-r--r--r--. 1 root root 3541561 Jun  2 18:16 /sys/kernel/btf/vmlinux
```

To develop and build BPF programs, you'll need Clang/LLVM 10+. The following
distributions have Clang/LLVM 10+ packaged by default:
- Fedora 32+
- Ubuntu 20.04+
- Arch Linux
- Ubuntu 20.10 (LLVM 11)
- Debian 11 (LLVM 11)
- Alpine 3.13+

Otherwise, please make sure to update it on your system.

The following resources are useful to understand what BPF CO-RE is and how to
use it:
- [BPF CO-RE reference guide](https://nakryiko.com/posts/bpf-core-reference-guide/)
- [BPF Portability and CO-RE](https://nakryiko.com/posts/bpf-portability-and-co-re/)
-
  [HOWTO: BCC to libbpf conversion](https://nakryiko.com/posts/bcc-to-libbpf-howto-guide/)
- [libbpf-tools in BCC repo](https://github.com/iovisor/bcc/tree/master/libbpf-tools)
  contain lots of real-world tools converted from BCC to BPF CO-RE. Consider
  converting some more to both contribute to the BPF community and gain some
  more experience with it.

Distributions
==========

Distributions packaging libbpf from this mirror:
- [Fedora](https://src.fedoraproject.org/rpms/libbpf)
- [Gentoo](https://packages.gentoo.org/packages/dev-libs/libbpf)
- [Debian](https://packages.debian.org/source/sid/libbpf)
- [Arch](https://archlinux.org/packages/core/x86_64/libbpf/)
- [Ubuntu](https://packages.ubuntu.com/source/jammy/libbpf)
- [Alpine](https://pkgs.alpinelinux.org/packages?name=libbpf)

Benefits of packaging from the mirror over packaging from kernel sources:
- Consistent versioning across distributions.

- No ties to any specific kernel, transparent
handling of older kernels.
  Libbpf is designed to be kernel-agnostic and work across multitude of
  kernel versions. It has built-in mechanisms to gracefully handle older
  kernels, that are missing some of the features, by working around or
  gracefully degrading functionality. Thus libbpf is not tied to a specific
  kernel version and can/should be packaged and versioned independently.
- Continuous integration testing via
  [GitHub Actions](https://github.com/libbpf/libbpf/actions).
- Static code analysis via [LGTM](https://lgtm.com/projects/g/libbpf/libbpf)
  and [Coverity](https://scan.coverity.com/projects/libbpf).

Package dependencies of libbpf, package names may vary across distros:
- zlib
- libelf

[![libbpf distro packaging status](https://repology.org/badge/vertical-allrepos/libbpf.svg)](https://repology.org/project/libbpf/versions)

bpf-next to Github sync
==========

All the gory details of syncing can be found in `scripts/sync-kernel.sh`
script.
 See SYNC.md for instruction.

Some header files in this repo (`include/linux/*.h`) are reduced versions of
their counterpart files at
[bpf-next](https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git/)'s
`tools/include/linux/*.h` to make compilation successful.

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/*
* Common eBPF ELF object loading operations.
*
* Copyright (C) 2013-2015 Alexei Starovoitov <ast@kernel.org>
* Copyright (C) 2015 Wang Nan <wangnan0@huawei.com>
* Copyright (C) 2015 Huawei Inc.
*/
#ifndef __LIBBPF_LIBBPF_H
#define __LIBBPF_LIBBPF_H

#include <stdarg.h>
#include <stdio.h>
#include <stdint.h>
#include <stdbool.h>
#include <sys/types.h>  // for size_t
#include <linux/bpf.h>

#include "libbpf_common.h"
#include "libbpf_legacy.h"

#ifdef __cplusplus
extern "C" {
#endif

LIBBPF_API __u32 libbpf_major_version(void);
LIBBPF_API __u32 libbpf_minor_version(void);
LIBBPF_API const char *libbpf_version_string(void);

enum libbpf_errno {
 __LIBBPF_ERRNO__START = 4000,

 /* Something wrong in libelf */
 LIBBPF_ERRNO__LIBELF = __LIBBPF_ERRNO__START,
 LIBBPF_ERRNO__FORMAT, /* BPF object format invalid */
 LIBBPF_ERRNO__KVERSION, /* Incorrect or no 'version' section */
 LIBBPF_ERRNO__ENDIAN, /* Endian mismatch */
 LIBBPF_ERRNO__INTERNAL, /*
```

```
 Internal error in libbpf */
 LIBBPF_ERRNO__RELOC, /* Relocation failed */
 LIBBPF_ERRNO__LOAD, /* Load program failure for unknown reason */
 LIBBPF_ERRNO__VERIFY, /* Kernel verifier blocks program loading */
 LIBBPF_ERRNO__PROG2BIG, /* Program too big */
 LIBBPF_ERRNO__KVER, /* Incorrect kernel version */
 LIBBPF_ERRNO__PROGTYPE, /* Kernel doesn't support this program type */
 LIBBPF_ERRNO__WRNGPID, /* Wrong pid in netlink message */
 LIBBPF_ERRNO__INVSEQ, /* Invalid netlink sequence */
 LIBBPF_ERRNO__NLPARSE, /* netlink parsing error */
 __LIBBPF_ERRNO__END,
};

LIBBPF_API int libbpf_strerror(int err, char *buf, size_t size);

/**
* @brief **libbpf_bpf_attach_type_str()** converts the provided attach type
* value into a textual representation.
* @param t The attach type.
* @return Pointer to a static string identifying the attach type. NULL is
* returned for unknown **bpf_attach_type** values.
*/
LIBBPF_API const char *libbpf_bpf_attach_type_str(enum bpf_attach_type
 t);

/**
* @brief **libbpf_bpf_link_type_str()** converts the provided link type value
* into a textual representation.
* @param t The link type.
* @return Pointer to a static string identifying the link type. NULL is
* returned for unknown **bpf_link_type** values.
*/
LIBBPF_API const char *libbpf_bpf_link_type_str(enum bpf_link_type t);

/**
* @brief **libbpf_bpf_map_type_str()** converts the provided map type value
* into a textual representation.
* @param t The map type.
* @return Pointer to a static string identifying the map type. NULL is
* returned for unknown **bpf_map_type** values.
*/
LIBBPF_API const char *libbpf_bpf_map_type_str(enum bpf_map_type t);

/**
* @brief **libbpf_bpf_prog_type_str()** converts the provided program type
* value into a textual representation.
* @param t The program type.
* @return Pointer to a static string identifying the program type. NULL is
```

```
* returned for unknown **bpf_prog_type** values.
*/
LIBBPF_API const char *libbpf_bpf_prog_type_str(enum
 bpf_prog_type t);

enum libbpf_print_level {
	LIBBPF_WARN,
	LIBBPF_INFO,
	LIBBPF_DEBUG,
};

typedef int (*libbpf_print_fn_t)(enum libbpf_print_level level,
	const char *, va_list ap);

/**
* @brief **libbpf_set_print()** sets user-provided log callback function to
* be used for libbpf warnings and informational messages.
* @param fn The log print function. If NULL, libbpf won't print anything.
* @return Pointer to old print function.
*
* This function is thread-safe.
*/
LIBBPF_API libbpf_print_fn_t libbpf_set_print(libbpf_print_fn_t fn);

/* Hide internal to user */
struct bpf_object;

struct bpf_object_open_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* object name override, if provided:
  * - for object open from file, this will override setting object
  *   name from file path's base name;
  * - for object open from memory buffer, this will specify an object
  *   name and will override
 default "<addr>-<buf-size>" name;
  */
 const char *object_name;
 /* parse map definitions non-strictly, allowing extra attributes/data */
 bool relaxed_maps;
 /* maps that set the 'pinning' attribute in their definition will have
  * their pin_path attribute set to a file in this directory, and be
  * auto-pinned to that path on load; defaults to "/sys/fs/bpf".
  */
 const char *pin_root_path;

 __u32 :32; /* stub out now removed attach_prog_fd */
```

```
/* Additional kernel config content that augments and overrides
 * system Kconfig for CONFIG_xxx externs.
 */
const char *kconfig;
/* Path to the custom BTF to be used for BPF CO-RE relocations.
 * This custom BTF completely replaces the use of vmlinux BTF
 * for the purpose of CO-RE relocations.
 * NOTE: any other BPF feature (e.g., fentry/fexit programs,
 * struct_ops, etc) will need actual kernel BTF at /sys/kernel/btf/vmlinux.
 */
const char *btf_custom_path;
/* Pointer to a buffer for storing kernel logs for applicable BPF

* commands. Valid kernel_log_size has to be specified as well and are
 * passed-through to bpf() syscall. Keep in mind that kernel might
 * fail operation with -ENOSPC error if provided buffer is too small
 * to contain entire log output.
 * See the comment below for kernel_log_level for interaction between
 * log_buf and log_level settings.
 *
 * If specified, this log buffer will be passed for:
 *   - each BPF progral load (BPF_PROG_LOAD) attempt, unless overriden
 *     with bpf_program__set_log() on per-program level, to get
 *     BPF verifier log output.
 *   - during BPF object's BTF load into kernel (BPF_BTF_LOAD) to get
 *     BTF sanity checking log.
 *
 * Each BPF command (BPF_BTF_LOAD or BPF_PROG_LOAD) will overwrite
 * previous contents, so if you need more fine-grained control, set
 * per-program buffer with bpf_program__set_log_buf() to preserve each
 * individual program's verification log. Keep using kernel_log_buf
 * for BTF verification log, if
necessary.
 */
char *kernel_log_buf;
size_t kernel_log_size;
/*
 * Log level can be set independently from log buffer. Log_level=0
 * means that libbpf will attempt loading BTF or program without any
 * logging requested, but will retry with either its own or custom log
 * buffer, if provided, and log_level=1 on any error.
 * And vice versa, setting log_level>0 will request BTF or prog
 * loading with verbose log from the first attempt (and as such also
 * for successfully loaded BTF or program), and the actual log buffer
 * could be either libbpf's own auto-allocated log buffer, if
 * kernel_log_buffer is NULL, or user-provided custom kernel_log_buf.
 * If user didn't provide custom log buffer, libbpf will emit captured
 * logs through its print callback.
```

```
 */
 __u32 kernel_log_level;
 /* Path to BPF FS mount point to derive BPF token from.
  *
  * Created BPF token will be used for all bpf() syscall operations
  * that accept BPF token (e.g., map creation, BTF and program
 loads,
  * etc) automatically within instantiated BPF object.
  *
  * If bpf_token_path is not specified, libbpf will consult
  * LIBBPF_BPF_TOKEN_PATH environment variable. If set, it will be
  * taken as a value of bpf_token_path option and will force libbpf to
  * either create BPF token from provided custom BPF FS path, or will
  * disable implicit BPF token creation, if envvar value is an empty
  * string. bpf_token_path overrides LIBBPF_BPF_TOKEN_PATH, if both are
  * set at the same time.
  *
  * Setting bpf_token_path option to empty string disables libbpf's
  * automatic attempt to create BPF token from default BPF FS mount
  * point (/sys/fs/bpf), in case this default behavior is undesirable.
  */
 const char *bpf_token_path;

 size_t :0;
};
#define bpf_object_open_opts__last_field bpf_token_path

/**
* @brief **bpf_object__open()** creates a bpf_object by opening
* the BPF ELF object file pointed to by the passed path and loading it
* into memory.
* @param path BPF object
 file path.
* @return pointer to the new bpf_object; or NULL is returned on error,
* error code is stored in errno
*/
LIBBPF_API struct bpf_object *bpf_object__open(const char *path);

/**
* @brief **bpf_object__open_file()** creates a bpf_object by opening
* the BPF ELF object file pointed to by the passed path and loading it
* into memory.
* @param path BPF object file path
* @param opts options for how to load the bpf object, this parameter is
* optional and can be set to NULL
* @return pointer to the new bpf_object; or NULL is returned on error,
* error code is stored in errno
*/
```

```
LIBBPF_API struct bpf_object *
bpf_object__open_file(const char *path, const struct bpf_object_open_opts *opts);

/**
* @brief **bpf_object__open_mem()** creates a bpf_object by reading
* the BPF objects raw bytes from a memory buffer containing a valid
* BPF ELF object file.
* @param obj_buf pointer to the buffer containing ELF file bytes
* @param obj_buf_sz number of bytes in the buffer
 * @param opts options for how to load the bpf object
* @return pointer to the new bpf_object; or NULL is returned on error,
* error code is stored in errno
*/
LIBBPF_API struct bpf_object *
bpf_object__open_mem(const void *obj_buf, size_t obj_buf_sz,
       const struct bpf_object_open_opts *opts);

/**
* @brief **bpf_object__load()** loads BPF object into kernel.
* @param obj Pointer to a valid BPF object instance returned by
* **bpf_object__open*()** APIs
* @return 0, on success; negative error code, otherwise, error code is
* stored in errno
*/
LIBBPF_API int bpf_object__load(struct bpf_object *obj);

/**
* @brief **bpf_object__close()** closes a BPF object and releases all
* resources.
* @param obj Pointer to a valid BPF object
*/
LIBBPF_API void bpf_object__close(struct bpf_object *obj);

/**
* @brief **bpf_object__pin_maps()** pins each map contained within
* the BPF object at the passed directory.
* @param obj Pointer to a valid BPF object
* @param path A
 directory where maps should be pinned.
* @return 0, on success; negative error code, otherwise
*
* If `path` is NULL `bpf_map__pin` (which is being used on each map)
* will use the pin_path attribute of each map. In this case, maps that
* don't have a pin_path set will be ignored.
*/
LIBBPF_API int bpf_object__pin_maps(struct bpf_object *obj, const char *path);

/**
```

```
* @brief **bpf_object__unpin_maps()** unpins each map contained within
* the BPF object found in the passed directory.
* @param obj Pointer to a valid BPF object
* @param path A directory where pinned maps should be searched for.
* @return 0, on success; negative error code, otherwise
*
* If `path` is NULL `bpf_map__unpin` (which is being used on each map)
* will use the pin_path attribute of each map. In this case, maps that
* don't have a pin_path set will be ignored.
*/
LIBBPF_API int bpf_object__unpin_maps(struct bpf_object *obj,
         const char *path);
LIBBPF_API int bpf_object__pin_programs(struct
 bpf_object *obj,
     const char *path);
LIBBPF_API int bpf_object__unpin_programs(struct bpf_object *obj,
       const char *path);
LIBBPF_API int bpf_object__pin(struct bpf_object *object, const char *path);
LIBBPF_API int bpf_object__unpin(struct bpf_object *object, const char *path);

LIBBPF_API const char *bpf_object__name(const struct bpf_object *obj);
LIBBPF_API unsigned int bpf_object__kversion(const struct bpf_object *obj);
LIBBPF_API int bpf_object__set_kversion(struct bpf_object *obj, __u32 kern_version);

struct btf;
LIBBPF_API struct btf *bpf_object__btf(const struct bpf_object *obj);
LIBBPF_API int bpf_object__btf_fd(const struct bpf_object *obj);

LIBBPF_API struct bpf_program *
bpf_object__find_program_by_name(const struct bpf_object *obj,
     const char *name);

LIBBPF_API int
libbpf_prog_type_by_name(const char *name, enum bpf_prog_type *prog_type,
    enum bpf_attach_type *expected_attach_type);
LIBBPF_API int libbpf_attach_type_by_name(const char *name,
       enum
 bpf_attach_type *attach_type);
LIBBPF_API int libbpf_find_vmlinux_btf_id(const char *name,
       enum bpf_attach_type attach_type);

/* Accessors of bpf_program */
struct bpf_program;

LIBBPF_API struct bpf_program *
bpf_object__next_program(const struct bpf_object *obj, struct bpf_program *prog);

#define bpf_object__for_each_program(pos, obj)   \
```

```
 for ((pos) = bpf_object__next_program((obj), NULL); \
     (pos) != NULL;     \
     (pos) = bpf_object__next_program((obj), (pos)))

LIBBPF_API struct bpf_program *
bpf_object__prev_program(const struct bpf_object *obj, struct bpf_program *prog);

LIBBPF_API void bpf_program__set_ifindex(struct bpf_program *prog,
     __u32 ifindex);

LIBBPF_API const char *bpf_program__name(const struct bpf_program *prog);
LIBBPF_API const char *bpf_program__section_name(const struct bpf_program *prog);
LIBBPF_API bool bpf_program__autoload(const struct bpf_program *prog);
LIBBPF_API int bpf_program__set_autoload(struct bpf_program *prog, bool autoload);
LIBBPF_API
 bool bpf_program__autoattach(const struct bpf_program *prog);
LIBBPF_API void bpf_program__set_autoattach(struct bpf_program *prog, bool autoattach);

struct bpf_insn;

/**
* @brief **bpf_program__insns()** gives read-only access to BPF program's
* underlying BPF instructions.
* @param prog BPF program for which to return instructions
* @return a pointer to an array of BPF instructions that belong to the
* specified BPF program
*
* Returned pointer is always valid and not NULL. Number of `struct bpf_insn`
* pointed to can be fetched using **bpf_program__insn_cnt()** API.
*
* Keep in mind, libbpf can modify and append/delete BPF program's
* instructions as it processes BPF object file and prepares everything for
* uploading into the kernel. So depending on the point in BPF object
* lifetime, **bpf_program__insns()** can return different sets of
* instructions. As an example, during BPF object load phase BPF program
* instructions will be CO-RE-relocated,
 BPF subprograms instructions will be
* appended, ldimm64 instructions will have FDs embedded, etc. So instructions
* returned before **bpf_object__load()** and after it might be quite
* different.
*/
LIBBPF_API const struct bpf_insn *bpf_program__insns(const struct bpf_program *prog);

/**
* @brief **bpf_program__set_insns()** can set BPF program's underlying
* BPF instructions.
*
* WARNING: This is a very advanced libbpf API and users need to know
```

```
* what they are doing. This should be used from prog_prepare_load_fn
* callback only.
*
* @param prog BPF program for which to return instructions
* @param new_insns a pointer to an array of BPF instructions
* @param new_insn_cnt number of `struct bpf_insn`'s that form
* specified BPF program
* @return 0, on success; negative error code, otherwise
*/
LIBBPF_API int bpf_program__set_insns(struct bpf_program *prog,
        struct bpf_insn *new_insns, size_t new_insn_cnt);

/**
* @brief **bpf_program__insn_cnt()** returns number
 of `struct bpf_insn`'s
* that form specified BPF program.
* @param prog BPF program for which to return number of BPF instructions
*
* See **bpf_program__insns()** documentation for notes on how libbpf can
* change instructions and their count during different phases of
* **bpf_object** lifetime.
*/
LIBBPF_API size_t bpf_program__insn_cnt(const struct bpf_program *prog);

LIBBPF_API int bpf_program__fd(const struct bpf_program *prog);

/**
* @brief **bpf_program__pin()** pins the BPF program to a file
* in the BPF FS specified by a path. This increments the programs
* reference count, allowing it to stay loaded after the process
* which loaded it has exited.
*
* @param prog BPF program to pin, must already be loaded
* @param path file path in a BPF file system
* @return 0, on success; negative error code, otherwise
*/
LIBBPF_API int bpf_program__pin(struct bpf_program *prog, const char *path);

/**
* @brief **bpf_program__unpin()** unpins the BPF program from a file
 * in the BPFFS specified by a path. This decrements the programs
* reference count.
*
* The file pinning the BPF program can also be unlinked by a different
* process in which case this function will return an error.
*
* @param prog BPF program to unpin
* @param path file path to the pin in a BPF file system
```

```
* @return 0, on success; negative error code, otherwise
*/
LIBBPF_API int bpf_program__unpin(struct bpf_program *prog, const char *path);
LIBBPF_API void bpf_program__unload(struct bpf_program *prog);

struct bpf_link;

LIBBPF_API struct bpf_link *bpf_link__open(const char *path);
LIBBPF_API int bpf_link__fd(const struct bpf_link *link);
LIBBPF_API const char *bpf_link__pin_path(const struct bpf_link *link);
/**
* @brief **bpf_link__pin()** pins the BPF link to a file
* in the BPF FS specified by a path. This increments the links
* reference count, allowing it to stay loaded after the process
* which loaded it has exited.
*
* @param link BPF link to pin, must already
 be loaded
* @param path file path in a BPF file system
* @return 0, on success; negative error code, otherwise
*/

LIBBPF_API int bpf_link__pin(struct bpf_link *link, const char *path);

/**
* @brief **bpf_link__unpin()** unpins the BPF link from a file
* in the BPFFS specified by a path. This decrements the links
* reference count.
*
* The file pinning the BPF link can also be unlinked by a different
* process in which case this function will return an error.
*
* @param prog BPF program to unpin
* @param path file path to the pin in a BPF file system
* @return 0, on success; negative error code, otherwise
*/
LIBBPF_API int bpf_link__unpin(struct bpf_link *link);
LIBBPF_API int bpf_link__update_program(struct bpf_link *link,
    struct bpf_program *prog);
LIBBPF_API void bpf_link__disconnect(struct bpf_link *link);
LIBBPF_API int bpf_link__detach(struct bpf_link *link);
LIBBPF_API int bpf_link__destroy(struct bpf_link *link);

/**
* @brief **bpf_program__attach()**
 is a generic function for attaching
* a BPF program based on auto-detection of program type, attach type,
* and extra paremeters, where applicable.
```

```
*
* @param prog BPF program to attach
* @return Reference to the newly created BPF link; or NULL is returned on error,
* error code is stored in errno
*
* This is supported for:
*   - kprobe/kretprobe (depends on SEC() definition)
*   - uprobe/uretprobe (depends on SEC() definition)
*   - tracepoint
*   - raw tracepoint
*   - tracing programs (typed raw TP/fentry/fexit/fmod_ret)
*/
LIBBPF_API struct bpf_link *
bpf_program__attach(const struct bpf_program *prog);

struct bpf_perf_event_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* custom user-provided value fetchable through bpf_get_attach_cookie() */
 __u64 bpf_cookie;
 /* don't use BPF link when attach BPF program */
 bool force_ioctl_attach;
 size_t :0;
};
#define bpf_perf_event_opts__last_field force_ioctl_attach

LIBBPF_API struct bpf_link
 *
bpf_program__attach_perf_event(const struct bpf_program *prog, int pfd);

LIBBPF_API struct bpf_link *
bpf_program__attach_perf_event_opts(const struct bpf_program *prog, int pfd,
        const struct bpf_perf_event_opts *opts);

/**
* enum probe_attach_mode - the mode to attach kprobe/uprobe
*
* force libbpf to attach kprobe/uprobe in specific mode, -ENOTSUP will
* be returned if it is not supported by the kernel.
*/
enum probe_attach_mode {
 /* attach probe in latest supported mode by kernel */
 PROBE_ATTACH_MODE_DEFAULT = 0,
 /* attach probe in legacy mode, using debugfs/tracefs */
 PROBE_ATTACH_MODE_LEGACY,
 /* create perf event with perf_event_open() syscall */
 PROBE_ATTACH_MODE_PERF,
 /* attach probe with BPF link */
```

```
 PROBE_ATTACH_MODE_LINK,
};

struct bpf_kprobe_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* custom user-provided value fetchable through bpf_get_attach_cookie() */
 __u64 bpf_cookie;
 /* function's offset to install
 kprobe to */
 size_t offset;
 /* kprobe is return probe */
 bool retprobe;
 /* kprobe attach mode */
 enum probe_attach_mode attach_mode;
 size_t :0;
};
#define bpf_kprobe_opts__last_field attach_mode

LIBBPF_API struct bpf_link *
bpf_program__attach_kprobe(const struct bpf_program *prog, bool retprobe,
     const char *func_name);
LIBBPF_API struct bpf_link *
bpf_program__attach_kprobe_opts(const struct bpf_program *prog,
                                const char *func_name,
                                const struct bpf_kprobe_opts *opts);

struct bpf_kprobe_multi_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* array of function symbols to attach */
 const char **syms;
 /* array of function addresses to attach */
 const unsigned long *addrs;
 /* array of user-provided values fetchable through bpf_get_attach_cookie */
 const __u64 *cookies;
 /* number of elements in syms/addrs/cookies arrays */
 size_t cnt;
 /* create return kprobes */
 bool
 retprobe;
 /* create session kprobes */
 bool session;
 size_t :0;
};

#define bpf_kprobe_multi_opts__last_field session
```

```
LIBBPF_API struct bpf_link *
bpf_program__attach_kprobe_multi_opts(const struct bpf_program *prog,
        const char *pattern,
        const struct bpf_kprobe_multi_opts *opts);

struct bpf_uprobe_multi_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* array of function symbols to attach to */
 const char **syms;
 /* array of function addresses to attach to */
 const unsigned long *offsets;
 /* optional, array of associated ref counter offsets */
 const unsigned long *ref_ctr_offsets;
 /* optional, array of associated BPF cookies */
 const __u64 *cookies;
 /* number of elements in syms/addrs/cookies arrays */
 size_t cnt;
 /* create return uprobes */
 bool retprobe;
 size_t :0;
};

#define bpf_uprobe_multi_opts__last_field retprobe

/**
* @brief **bpf_program__attach_uprobe_multi()** attaches a BPF program
* to multiple
 uprobes with uprobe_multi link.
*
* User can specify 2 mutually exclusive set of inputs:
*
*   1) use only path/func_pattern/pid arguments
*
*   2) use path/pid with allowed combinations of
*      syms/offsets/ref_ctr_offsets/cookies/cnt
*
*      - syms and offsets are mutually exclusive
*      - ref_ctr_offsets and cookies are optional
*
*
* @param prog BPF program to attach
* @param pid Process ID to attach the uprobe to, 0 for self (own process),
* -1 for all processes
* @param binary_path Path to binary
* @param func_pattern Regular expression to specify functions to attach
* BPF program to
* @param opts Additional options (see **struct bpf_uprobe_multi_opts**)
```

```
* @return 0, on success; negative error code, otherwise
*/
LIBBPF_API struct bpf_link *
bpf_program__attach_uprobe_multi(const struct bpf_program *prog,
    pid_t pid,
    const char *binary_path,
    const char *func_pattern,
    const struct bpf_uprobe_multi_opts *opts);

struct bpf_ksyscall_opts
 {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* custom user-provided value fetchable through bpf_get_attach_cookie() */
 __u64 bpf_cookie;
 /* attach as return probe? */
 bool retprobe;
 size_t :0;
};
#define bpf_ksyscall_opts__last_field retprobe

/**
* @brief **bpf_program__attach_ksyscall()** attaches a BPF program
* to kernel syscall handler of a specified syscall. Optionally it's possible
* to request to install retprobe that will be triggered at syscall exit. It's
* also possible to associate BPF cookie (though options).
*
* Libbpf automatically will determine correct full kernel function name,
* which depending on system architecture and kernel version/configuration
* could be of the form __<arch>_sys_<syscall> or __se_sys_<syscall>, and will
* attach specified program using kprobe/kretprobe mechanism.
*
* **bpf_program__attach_ksyscall()** is an API counterpart of declarative
* **SEC("ksyscall/<syscall>")** annotation of BPF programs.
 *
* At the moment **SEC("ksyscall")** and **bpf_program__attach_ksyscall()** do
* not handle all the calling convention quirks for mmap(), clone() and compat
* syscalls. It also only attaches to "native" syscall interfaces. If host
* system supports compat syscalls or defines 32-bit syscalls in 64-bit
* kernel, such syscall interfaces won't be attached to by libbpf.
*
* These limitations may or may not change in the future. Therefore it is
* recommended to use SEC("kprobe") for these syscalls or if working with
* compat and 32-bit interfaces is required.
*
* @param prog BPF program to attach
* @param syscall_name Symbolic name of the syscall (e.g., "bpf")
* @param opts Additional options (see **struct bpf_ksyscall_opts**)
```

```
* @return Reference to the newly created BPF link; or NULL is returned on
* error, error code is stored in errno
*/
LIBBPF_API struct bpf_link *
bpf_program__attach_ksyscall(const struct bpf_program *prog,
        const char *syscall_name,

 const struct bpf_ksyscall_opts *opts);

struct bpf_uprobe_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* offset of kernel reference counted USDT semaphore, added in
  * a6ca88b241d5 ("trace_uprobe: support reference counter in fd-based uprobe")
  */
 size_t ref_ctr_offset;
 /* custom user-provided value fetchable through bpf_get_attach_cookie() */
 __u64 bpf_cookie;
 /* uprobe is return probe, invoked at function return time */
 bool retprobe;
 /* Function name to attach to.  Could be an unqualified ("abc") or library-qualified
  * "abc@LIBXYZ" name.  To specify function entry, func_name should be set while
  * func_offset argument to bpf_prog__attach_uprobe_opts() should be 0.  To trace an
  * offset within a function, specify func_name and use func_offset argument to specify
  * offset within the function.  Shared library functions must specify the shared library
  * binary_path.
  */
 const char *func_name;
 /* uprobe attach mode */
 enum probe_attach_mode
 attach_mode;
 size_t :0;
};
#define bpf_uprobe_opts__last_field attach_mode

/**
* @brief **bpf_program__attach_uprobe()** attaches a BPF program
* to the userspace function which is found by binary path and
* offset. You can optionally specify a particular proccess to attach
* to. You can also optionally attach the program to the function
* exit instead of entry.
*
* @param prog BPF program to attach
* @param retprobe Attach to function exit
* @param pid Process ID to attach the uprobe to, 0 for self (own process),
* -1 for all processes
* @param binary_path Path to binary that contains the function symbol
* @param func_offset Offset within the binary of the function symbol
```

```
* @return Reference to the newly created BPF link; or NULL is returned on error,
* error code is stored in errno
*/
LIBBPF_API struct bpf_link *
bpf_program__attach_uprobe(const struct bpf_program *prog, bool retprobe,
      pid_t pid, const char *binary_path,
      size_t func_offset);

/**
 * @brief **bpf_program__attach_uprobe_opts()** is just like
* bpf_program__attach_uprobe() except with a options struct
* for various configurations.
*
* @param prog BPF program to attach
* @param pid Process ID to attach the uprobe to, 0 for self (own process),
* -1 for all processes
* @param binary_path Path to binary that contains the function symbol
* @param func_offset Offset within the binary of the function symbol
* @param opts Options for altering program attachment
* @return Reference to the newly created BPF link; or NULL is returned on error,
* error code is stored in errno
*/
LIBBPF_API struct bpf_link *
bpf_program__attach_uprobe_opts(const struct bpf_program *prog, pid_t pid,
    const char *binary_path, size_t func_offset,
    const struct bpf_uprobe_opts *opts);

struct bpf_usdt_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* custom user-provided value accessible through usdt_cookie() */
 __u64 usdt_cookie;
 size_t
 :0;
};
#define bpf_usdt_opts__last_field usdt_cookie

/**
* @brief **bpf_program__attach_usdt()** is just like
* bpf_program__attach_uprobe_opts() except it covers USDT (User-space
* Statically Defined Tracepoint) attachment, instead of attaching to
* user-space function entry or exit.
*
* @param prog BPF program to attach
* @param pid Process ID to attach the uprobe to, 0 for self (own process),
* -1 for all processes
* @param binary_path Path to binary that contains provided USDT probe
* @param usdt_provider USDT provider name
```

```
* @param usdt_name USDT probe name
* @param opts Options for altering program attachment
* @return Reference to the newly created BPF link; or NULL is returned on error,
* error code is stored in errno
*/
LIBBPF_API struct bpf_link *
bpf_program__attach_usdt(const struct bpf_program *prog,
    pid_t pid, const char *binary_path,
    const char *usdt_provider, const char *usdt_name,
    const struct bpf_usdt_opts *opts);

struct bpf_tracepoint_opts
 {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* custom user-provided value fetchable through bpf_get_attach_cookie() */
 __u64 bpf_cookie;
};
#define bpf_tracepoint_opts__last_field bpf_cookie

LIBBPF_API struct bpf_link *
bpf_program__attach_tracepoint(const struct bpf_program *prog,
          const char *tp_category,
          const char *tp_name);
LIBBPF_API struct bpf_link *
bpf_program__attach_tracepoint_opts(const struct bpf_program *prog,
        const char *tp_category,
        const char *tp_name,
        const struct bpf_tracepoint_opts *opts);

struct bpf_raw_tracepoint_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u64 cookie;
 size_t :0;
};
#define bpf_raw_tracepoint_opts__last_field cookie

LIBBPF_API struct bpf_link *
bpf_program__attach_raw_tracepoint(const struct bpf_program *prog,
       const char *tp_name);
LIBBPF_API struct bpf_link *
bpf_program__attach_raw_tracepoint_opts(const struct bpf_program
 *prog,
     const char *tp_name,
     struct bpf_raw_tracepoint_opts *opts);

struct bpf_trace_opts {
 /* size of this struct, for forward/backward compatibility */
```

```
 size_t sz;
 /* custom user-provided value fetchable through bpf_get_attach_cookie() */
 __u64 cookie;
};
#define bpf_trace_opts__last_field cookie

LIBBPF_API struct bpf_link *
bpf_program__attach_trace(const struct bpf_program *prog);
LIBBPF_API struct bpf_link *
bpf_program__attach_trace_opts(const struct bpf_program *prog, const struct bpf_trace_opts *opts);

LIBBPF_API struct bpf_link *
bpf_program__attach_lsm(const struct bpf_program *prog);
LIBBPF_API struct bpf_link *
bpf_program__attach_cgroup(const struct bpf_program *prog, int cgroup_fd);
LIBBPF_API struct bpf_link *
bpf_program__attach_netns(const struct bpf_program *prog, int netns_fd);
LIBBPF_API struct bpf_link *
bpf_program__attach_sockmap(const struct bpf_program *prog, int map_fd);
LIBBPF_API struct bpf_link *
bpf_program__attach_xdp(const struct bpf_program
 *prog, int ifindex);
LIBBPF_API struct bpf_link *
bpf_program__attach_freplace(const struct bpf_program *prog,
        int target_fd, const char *attach_func_name);

struct bpf_netfilter_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;

 __u32 pf;
 __u32 hooknum;
 __s32 priority;
 __u32 flags;
};
#define bpf_netfilter_opts__last_field flags

LIBBPF_API struct bpf_link *
bpf_program__attach_netfilter(const struct bpf_program *prog,
         const struct bpf_netfilter_opts *opts);

struct bpf_tcx_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 __u32 flags;
 __u32 relative_fd;
 __u32 relative_id;
 __u64 expected_revision;
```

```
 size_t :0;
};
#define bpf_tcx_opts__last_field expected_revision

LIBBPF_API struct bpf_link *
bpf_program__attach_tcx(const struct bpf_program *prog, int ifindex,
   const struct bpf_tcx_opts *opts);

struct bpf_netkit_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t
 sz;
 __u32 flags;
 __u32 relative_fd;
 __u32 relative_id;
 __u64 expected_revision;
 size_t :0;
};
#define bpf_netkit_opts__last_field expected_revision

LIBBPF_API struct bpf_link *
bpf_program__attach_netkit(const struct bpf_program *prog, int ifindex,
      const struct bpf_netkit_opts *opts);

struct bpf_map;

LIBBPF_API struct bpf_link *bpf_map__attach_struct_ops(const struct bpf_map *map);
LIBBPF_API int bpf_link__update_map(struct bpf_link *link, const struct bpf_map *map);

struct bpf_iter_attach_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 union bpf_iter_link_info *link_info;
 __u32 link_info_len;
};
#define bpf_iter_attach_opts__last_field link_info_len

LIBBPF_API struct bpf_link *
bpf_program__attach_iter(const struct bpf_program *prog,
    const struct bpf_iter_attach_opts *opts);

LIBBPF_API enum bpf_prog_type bpf_program__type(const struct bpf_program *prog);

/**
* @brief **bpf_program__set_type()** sets the program
* type of the
 passed BPF program.
* @param prog BPF program to set the program type for
* @param type program type to set the BPF map to have
```

```
* @return error code; or 0 if no error. An error occurs
* if the object is already loaded.
*
* This must be called before the BPF object is loaded,
* otherwise it has no effect and an error is returned.
*/
LIBBPF_API int bpf_program__set_type(struct bpf_program *prog,
        enum bpf_prog_type type);

LIBBPF_API enum bpf_attach_type
bpf_program__expected_attach_type(const struct bpf_program *prog);

/**
* @brief **bpf_program__set_expected_attach_type()** sets the
* attach type of the passed BPF program. This is used for
* auto-detection of attachment when programs are loaded.
* @param prog BPF program to set the attach type for
* @param type attach type to set the BPF map to have
* @return error code; or 0 if no error. An error occurs
* if the object is already loaded.
*
* This must be called before the BPF object is loaded,
* otherwise it
 has no effect and an error is returned.
*/
LIBBPF_API int
bpf_program__set_expected_attach_type(struct bpf_program *prog,
         enum bpf_attach_type type);

LIBBPF_API __u32 bpf_program__flags(const struct bpf_program *prog);
LIBBPF_API int bpf_program__set_flags(struct bpf_program *prog, __u32 flags);

/* Per-program log level and log buffer getters/setters.
* See bpf_object_open_opts comments regarding log_level and log_buf
* interactions.
*/
LIBBPF_API __u32 bpf_program__log_level(const struct bpf_program *prog);
LIBBPF_API int bpf_program__set_log_level(struct bpf_program *prog, __u32 log_level);
LIBBPF_API const char *bpf_program__log_buf(const struct bpf_program *prog, size_t *log_size);
LIBBPF_API int bpf_program__set_log_buf(struct bpf_program *prog, char *log_buf, size_t log_size);

/**
* @brief **bpf_program__set_attach_target()** sets BTF-based attach target
* for supported BPF program types:
*   - BTF-aware raw tracepoints (tp_btf);
*   - fentry/fexit/fmod_ret;
 *   - lsm;
*   - freplace.
```

```
* @param prog BPF program to set the attach type for
* @param type attach type to set the BPF map to have
* @return error code; or 0 if no error occurred.
*/
LIBBPF_API int
bpf_program__set_attach_target(struct bpf_program *prog, int attach_prog_fd,
        const char *attach_func_name);

/**
* @brief **bpf_object__find_map_by_name()** returns BPF map of
* the given name, if it exists within the passed BPF object
* @param obj BPF object
* @param name name of the BPF map
* @return BPF map instance, if such map exists within the BPF object;
* or NULL otherwise.
*/
LIBBPF_API struct bpf_map *
bpf_object__find_map_by_name(const struct bpf_object *obj, const char *name);

LIBBPF_API int
bpf_object__find_map_fd_by_name(const struct bpf_object *obj, const char *name);

LIBBPF_API struct bpf_map *
bpf_object__next_map(const struct bpf_object *obj, const struct bpf_map *map);

#define bpf_object__for_each_map(pos, obj)  \
 for ((pos) = bpf_object__next_map((obj),
 NULL); \
     (pos) != NULL;    \
     (pos) = bpf_object__next_map((obj), (pos)))
#define bpf_map__for_each bpf_object__for_each_map

LIBBPF_API struct bpf_map *
bpf_object__prev_map(const struct bpf_object *obj, const struct bpf_map *map);

/**
* @brief **bpf_map__set_autocreate()** sets whether libbpf has to auto-create
* BPF map during BPF object load phase.
* @param map the BPF map instance
* @param autocreate whether to create BPF map during BPF object load
* @return 0 on success; -EBUSY if BPF object was already loaded
*
* **bpf_map__set_autocreate()** allows to opt-out from libbpf auto-creating
* BPF map. By default, libbpf will attempt to create every single BPF map
* defined in BPF object file using BPF_MAP_CREATE command of bpf() syscall
* and fill in map FD in BPF instructions.
*
* This API allows to opt-out of this process for specific map instance. This
```

```
* can be useful if host kernel doesn't support such BPF map type or used
* combination of flags
 and user application wants to avoid creating such
* a map in the first place. User is still responsible to make sure that their
* BPF-side code that expects to use such missing BPF map is recognized by BPF
* verifier as dead code, otherwise BPF verifier will reject such BPF program.
*/
LIBBPF_API int bpf_map__set_autocreate(struct bpf_map *map, bool autocreate);
LIBBPF_API bool bpf_map__autocreate(const struct bpf_map *map);

/**
* @brief **bpf_map__fd()** gets the file descriptor of the passed
* BPF map
* @param map the BPF map instance
* @return the file descriptor; or -EINVAL in case of an error
*/
LIBBPF_API int bpf_map__fd(const struct bpf_map *map);
LIBBPF_API int bpf_map__reuse_fd(struct bpf_map *map, int fd);
/* get map name */
LIBBPF_API const char *bpf_map__name(const struct bpf_map *map);
/* get/set map type */
LIBBPF_API enum bpf_map_type bpf_map__type(const struct bpf_map *map);
LIBBPF_API int bpf_map__set_type(struct bpf_map *map, enum bpf_map_type type);
/*
 get/set map size (max_entries) */
LIBBPF_API __u32 bpf_map__max_entries(const struct bpf_map *map);
LIBBPF_API int bpf_map__set_max_entries(struct bpf_map *map, __u32 max_entries);
/* get/set map flags */
LIBBPF_API __u32 bpf_map__map_flags(const struct bpf_map *map);
LIBBPF_API int bpf_map__set_map_flags(struct bpf_map *map, __u32 flags);
/* get/set map NUMA node */
LIBBPF_API __u32 bpf_map__numa_node(const struct bpf_map *map);
LIBBPF_API int bpf_map__set_numa_node(struct bpf_map *map, __u32 numa_node);
/* get/set map key size */
LIBBPF_API __u32 bpf_map__key_size(const struct bpf_map *map);
LIBBPF_API int bpf_map__set_key_size(struct bpf_map *map, __u32 size);
/* get map value size */
LIBBPF_API __u32 bpf_map__value_size(const struct bpf_map *map);
/**
* @brief **bpf_map__set_value_size()** sets map value size.
* @param map the BPF map instance
* @return 0, on success; negative error, otherwise
*
* There is a special case for maps with associated memory-mapped regions, like
*
 the global data section maps (bss, data, rodata). When this function is used
* on such a map, the mapped region is resized. Afterward, an attempt is made to
* adjust the corresponding BTF info. This attempt is best-effort and can only
```

```
* succeed if the last variable of the data section map is an array. The array
* BTF type is replaced by a new BTF array type with a different length.
* Any previously existing pointers returned from bpf_map__initial_value() or
* corresponding data section skeleton pointer must be reinitialized.
*/
LIBBPF_API int bpf_map__set_value_size(struct bpf_map *map, __u32 size);
/* get map key/value BTF type IDs */
LIBBPF_API __u32 bpf_map__btf_key_type_id(const struct bpf_map *map);
LIBBPF_API __u32 bpf_map__btf_value_type_id(const struct bpf_map *map);
/* get/set map if_index */
LIBBPF_API __u32 bpf_map__ifindex(const struct bpf_map *map);
LIBBPF_API int bpf_map__set_ifindex(struct bpf_map *map, __u32 ifindex);
/* get/set map map_extra flags */
LIBBPF_API
 __u64 bpf_map__map_extra(const struct bpf_map *map);
LIBBPF_API int bpf_map__set_map_extra(struct bpf_map *map, __u64 map_extra);

LIBBPF_API int bpf_map__set_initial_value(struct bpf_map *map,
      const void *data, size_t size);
LIBBPF_API void *bpf_map__initial_value(const struct bpf_map *map, size_t *psize);

/**
* @brief **bpf_map__is_internal()** tells the caller whether or not the
* passed map is a special map created by libbpf automatically for things like
* global variables, __ksym externs, Kconfig values, etc
* @param map the bpf_map
* @return true, if the map is an internal map; false, otherwise
*/
LIBBPF_API bool bpf_map__is_internal(const struct bpf_map *map);

/**
* @brief **bpf_map__set_pin_path()** sets the path attribute that tells where the
* BPF map should be pinned. This does not actually create the 'pin'.
* @param map The bpf_map
* @param path The path
* @return 0, on success; negative error, otherwise
*/
LIBBPF_API int bpf_map__set_pin_path(struct bpf_map
 *map, const char *path);

/**
* @brief **bpf_map__pin_path()** gets the path attribute that tells where the
* BPF map should be pinned.
* @param map The bpf_map
* @return The path string; which can be NULL
*/
LIBBPF_API const char *bpf_map__pin_path(const struct bpf_map *map);
```

```
/**
* @brief **bpf_map__is_pinned()** tells the caller whether or not the
* passed map has been pinned via a 'pin' file.
* @param map The bpf_map
* @return true, if the map is pinned; false, otherwise
*/
LIBBPF_API bool bpf_map__is_pinned(const struct bpf_map *map);

/**
* @brief **bpf_map__pin()** creates a file that serves as a 'pin'
* for the BPF map. This increments the reference count on the
* BPF map which will keep the BPF map loaded even after the
* userspace process which loaded it has exited.
* @param map The bpf_map to pin
* @param path A file path for the 'pin'
* @return 0, on success; negative error, otherwise
*
* If `path` is NULL the maps `pin_path` attribute will be used.
 If this is
* also NULL, an error will be returned and the map will not be pinned.
*/
LIBBPF_API int bpf_map__pin(struct bpf_map *map, const char *path);

/**
* @brief **bpf_map__unpin()** removes the file that serves as a
* 'pin' for the BPF map.
* @param map The bpf_map to unpin
* @param path A file path for the 'pin'
* @return 0, on success; negative error, otherwise
*
* The `path` parameter can be NULL, in which case the `pin_path`
* map attribute is unpinned. If both the `path` parameter and
* `pin_path` map attribute are set, they must be equal.
*/
LIBBPF_API int bpf_map__unpin(struct bpf_map *map, const char *path);

LIBBPF_API int bpf_map__set_inner_map_fd(struct bpf_map *map, int fd);
LIBBPF_API struct bpf_map *bpf_map__inner_map(struct bpf_map *map);

/**
* @brief **bpf_map__lookup_elem()** allows to lookup BPF map value
* corresponding to provided key.
* @param map BPF map to lookup element in
* @param key pointer to memory containing bytes of the key used for
 lookup
* @param key_sz size in bytes of key data, needs to match BPF map definition's **key_size**
* @param value pointer to memory in which looked up value will be stored
* @param value_sz size in byte of value data memory; it has to match BPF map
```

```
* definition's **value_size**. For per-CPU BPF maps value size has to be
* a product of BPF map value size and number of possible CPUs in the system
* (could be fetched with **libbpf_num_possible_cpus()**). Note also that for
* per-CPU values value size has to be aligned up to closest 8 bytes for
* alignment reasons, so expected size is: `round_up(value_size, 8)
* * libbpf_num_possible_cpus()`.
* @flags extra flags passed to kernel for this operation
* @return 0, on success; negative error, otherwise
*
* **bpf_map__lookup_elem()** is high-level equivalent of
* **bpf_map_lookup_elem()** API with added check for key and value size.
*/
LIBBPF_API int bpf_map__lookup_elem(const struct bpf_map *map,
        const void *key, size_t
 key_sz,
        void *value, size_t value_sz, __u64 flags);

/**
* @brief **bpf_map__update_elem()** allows to insert or update value in BPF
* map that corresponds to provided key.
* @param map BPF map to insert to or update element in
* @param key pointer to memory containing bytes of the key
* @param key_sz size in bytes of key data, needs to match BPF map definition's **key_size**
* @param value pointer to memory containing bytes of the value
* @param value_sz size in byte of value data memory; it has to match BPF map
* definition's **value_size**. For per-CPU BPF maps value size has to be
* a product of BPF map value size and number of possible CPUs in the system
* (could be fetched with **libbpf_num_possible_cpus()**). Note also that for
* per-CPU values value size has to be aligned up to closest 8 bytes for
* alignment reasons, so expected size is: `round_up(value_size, 8)
* * libbpf_num_possible_cpus()`.
* @flags extra flags passed to kernel for this operation
*
 @return 0, on success; negative error, otherwise
*
* **bpf_map__update_elem()** is high-level equivalent of
* **bpf_map_update_elem()** API with added check for key and value size.
*/
LIBBPF_API int bpf_map__update_elem(const struct bpf_map *map,
        const void *key, size_t key_sz,
        const void *value, size_t value_sz, __u64 flags);

/**
* @brief **bpf_map__delete_elem()** allows to delete element in BPF map that
* corresponds to provided key.
* @param map BPF map to delete element from
* @param key pointer to memory containing bytes of the key
* @param key_sz size in bytes of key data, needs to match BPF map definition's **key_size**
```

```
* @flags extra flags passed to kernel for this operation
* @return 0, on success; negative error, otherwise
*
* **bpf_map__delete_elem()** is high-level equivalent of
* **bpf_map_delete_elem()** API with added check for key size.
*/
LIBBPF_API int bpf_map__delete_elem(const struct bpf_map *map,
        const void *key, size_t key_sz,
 __u64 flags);

/**
* @brief **bpf_map__lookup_and_delete_elem()** allows to lookup BPF map value
* corresponding to provided key and atomically delete it afterwards.
* @param map BPF map to lookup element in
* @param key pointer to memory containing bytes of the key used for lookup
* @param key_sz size in bytes of key data, needs to match BPF map definition's **key_size**
* @param value pointer to memory in which looked up value will be stored
* @param value_sz size in byte of value data memory; it has to match BPF map
* definition's **value_size**. For per-CPU BPF maps value size has to be
* a product of BPF map value size and number of possible CPUs in the system
* (could be fetched with **libbpf_num_possible_cpus()**). Note also that for
* per-CPU values value size has to be aligned up to closest 8 bytes for
* alignment reasons, so expected size is: `round_up(value_size, 8)
* * libbpf_num_possible_cpus()`.
* @flags extra flags passed to kernel for this operation
 * @return 0, on success; negative error, otherwise
*
* **bpf_map__lookup_and_delete_elem()** is high-level equivalent of
* **bpf_map_lookup_and_delete_elem()** API with added check for key and value size.
*/
LIBBPF_API int bpf_map__lookup_and_delete_elem(const struct bpf_map *map,
            const void *key, size_t key_sz,
            void *value, size_t value_sz, __u64 flags);

/**
* @brief **bpf_map__get_next_key()** allows to iterate BPF map keys by
* fetching next key that follows current key.
* @param map BPF map to fetch next key from
* @param cur_key pointer to memory containing bytes of current key or NULL to
* fetch the first key
* @param next_key pointer to memory to write next key into
* @param key_sz size in bytes of key data, needs to match BPF map definition's **key_size**
* @return 0, on success; -ENOENT if **cur_key** is the last key in BPF map;
* negative error, otherwise
*
* **bpf_map__get_next_key()** is high-level equivalent of
* **bpf_map_get_next_key()**
```

```
 API with added check for key size.
*/
LIBBPF_API int bpf_map__get_next_key(const struct bpf_map *map,
        const void *cur_key, void *next_key, size_t key_sz);

struct bpf_xdp_set_link_opts {
 size_t sz;
 int old_fd;
 size_t :0;
};
#define bpf_xdp_set_link_opts__last_field old_fd

struct bpf_xdp_attach_opts {
 size_t sz;
 int old_prog_fd;
 size_t :0;
};
#define bpf_xdp_attach_opts__last_field old_prog_fd

struct bpf_xdp_query_opts {
 size_t sz;
 __u32 prog_id;  /* output */
 __u32 drv_prog_id; /* output */
 __u32 hw_prog_id; /* output */
 __u32 skb_prog_id; /* output */
 __u8 attach_mode; /* output */
 __u64 feature_flags; /* output */
 __u32 xdp_zc_max_segs; /* output */
 size_t :0;
};
#define bpf_xdp_query_opts__last_field xdp_zc_max_segs

LIBBPF_API int bpf_xdp_attach(int ifindex, int prog_fd, __u32 flags,
        const struct bpf_xdp_attach_opts *opts);
LIBBPF_API int bpf_xdp_detach(int ifindex, __u32 flags,
        const struct bpf_xdp_attach_opts *opts);
LIBBPF_API
 int bpf_xdp_query(int ifindex, int flags, struct bpf_xdp_query_opts *opts);
LIBBPF_API int bpf_xdp_query_id(int ifindex, int flags, __u32 *prog_id);

/* TC related API */
enum bpf_tc_attach_point {
 BPF_TC_INGRESS = 1 << 0,
 BPF_TC_EGRESS  = 1 << 1,
 BPF_TC_CUSTOM  = 1 << 2,
};

#define BPF_TC_PARENT(a, b)  \
```

```
 ((((a) << 16) & 0xFFFF0000U) | ((b) & 0x0000FFFFU))

enum bpf_tc_flags {
 BPF_TC_F_REPLACE = 1 << 0,
};

struct bpf_tc_hook {
 size_t sz;
 int ifindex;
 enum bpf_tc_attach_point attach_point;
 __u32 parent;
 size_t :0;
};
#define bpf_tc_hook__last_field parent

struct bpf_tc_opts {
 size_t sz;
 int prog_fd;
 __u32 flags;
 __u32 prog_id;
 __u32 handle;
 __u32 priority;
 size_t :0;
};
#define bpf_tc_opts__last_field priority

LIBBPF_API int bpf_tc_hook_create(struct bpf_tc_hook *hook);
LIBBPF_API int bpf_tc_hook_destroy(struct bpf_tc_hook *hook);
LIBBPF_API int bpf_tc_attach(const struct bpf_tc_hook *hook,
        struct bpf_tc_opts *opts);
LIBBPF_API int bpf_tc_detach(const struct
 bpf_tc_hook *hook,
        const struct bpf_tc_opts *opts);
LIBBPF_API int bpf_tc_query(const struct bpf_tc_hook *hook,
       struct bpf_tc_opts *opts);

/* Ring buffer APIs */
struct ring_buffer;
struct ring;
struct user_ring_buffer;

typedef int (*ring_buffer_sample_fn)(void *ctx, void *data, size_t size);

struct ring_buffer_opts {
 size_t sz; /* size of this struct, for forward/backward compatibility */
};

#define ring_buffer_opts__last_field sz
```

```
LIBBPF_API struct ring_buffer *
ring_buffer__new(int map_fd, ring_buffer_sample_fn sample_cb, void *ctx,
   const struct ring_buffer_opts *opts);
LIBBPF_API void ring_buffer__free(struct ring_buffer *rb);
LIBBPF_API int ring_buffer__add(struct ring_buffer *rb, int map_fd,
    ring_buffer_sample_fn sample_cb, void *ctx);
LIBBPF_API int ring_buffer__poll(struct ring_buffer *rb, int timeout_ms);
LIBBPF_API int ring_buffer__consume(struct ring_buffer *rb);
LIBBPF_API int ring_buffer__consume_n(struct ring_buffer *rb, size_t n);
LIBBPF_API
 int ring_buffer__epoll_fd(const struct ring_buffer *rb);

/**
* @brief **ring_buffer__ring()** returns the ringbuffer object inside a given
* ringbuffer manager representing a single BPF_MAP_TYPE_RINGBUF map instance.
*
* @param rb A ringbuffer manager object.
* @param idx An index into the ringbuffers contained within the ringbuffer
* manager object. The index is 0-based and corresponds to the order in which
* ring_buffer__add was called.
* @return A ringbuffer object on success; NULL and errno set if the index is
* invalid.
*/
LIBBPF_API struct ring *ring_buffer__ring(struct ring_buffer *rb,
       unsigned int idx);

/**
* @brief **ring__consumer_pos()** returns the current consumer position in the
* given ringbuffer.
*
* @param r A ringbuffer object.
* @return The current consumer position.
*/
LIBBPF_API unsigned long ring__consumer_pos(const struct ring *r);

/**
* @brief **ring__producer_pos()** returns the current producer position in the
* given ringbuffer.
*
 * @param r A ringbuffer object.
* @return The current producer position.
*/
LIBBPF_API unsigned long ring__producer_pos(const struct ring *r);

/**
* @brief **ring__avail_data_size()** returns the number of bytes in the
* ringbuffer not yet consumed. This has no locking associated with it, so it
```

```
* can be inaccurate if operations are ongoing while this is called. However, it
* should still show the correct trend over the long-term.
*
* @param r A ringbuffer object.
* @return The number of bytes not yet consumed.
*/
LIBBPF_API size_t ring__avail_data_size(const struct ring *r);

/**
* @brief **ring__size()** returns the total size of the ringbuffer's map data
* area (excluding special producer/consumer pages). Effectively this gives the
* amount of usable bytes of data inside the ringbuffer.
*
* @param r A ringbuffer object.
* @return The total size of the ringbuffer map data area.
*/
LIBBPF_API size_t ring__size(const struct ring *r);

/**
* @brief **ring__map_fd()**
 returns the file descriptor underlying the given
* ringbuffer.
*
* @param r A ringbuffer object.
* @return The underlying ringbuffer file descriptor
*/
LIBBPF_API int ring__map_fd(const struct ring *r);

/**
* @brief **ring__consume()** consumes available ringbuffer data without event
* polling.
*
* @param r A ringbuffer object.
* @return The number of records consumed (or INT_MAX, whichever is less), or
* a negative number if any of the callbacks return an error.
*/
LIBBPF_API int ring__consume(struct ring *r);

/**
* @brief **ring__consume_n()** consumes up to a requested amount of items from
* a ringbuffer without event polling.
*
* @param r A ringbuffer object.
* @param n Maximum amount of items to consume.
* @return The number of items consumed, or a negative number if any of the
* callbacks return an error.
*/
LIBBPF_API int ring__consume_n(struct ring *r, size_t n);
```

```
struct user_ring_buffer_opts {
 size_t sz; /* size of this struct, for forward/backward compatibility
 */
};

#define user_ring_buffer_opts__last_field sz

/**
* @brief **user_ring_buffer__new()** creates a new instance of a user ring
* buffer.
*
* @param map_fd A file descriptor to a BPF_MAP_TYPE_USER_RINGBUF map.
* @param opts Options for how the ring buffer should be created.
* @return A user ring buffer on success; NULL and errno being set on a
* failure.
*/
LIBBPF_API struct user_ring_buffer *
user_ring_buffer__new(int map_fd, const struct user_ring_buffer_opts *opts);

/**
* @brief **user_ring_buffer__reserve()** reserves a pointer to a sample in the
* user ring buffer.
* @param rb A pointer to a user ring buffer.
* @param size The size of the sample, in bytes.
* @return A pointer to an 8-byte aligned reserved region of the user ring
* buffer; NULL, and errno being set if a sample could not be reserved.
*
* This function is *not* thread safe, and callers must synchronize accessing
* this function if there are multiple producers.  If a size is requested that
 * is larger than the size of the entire ring buffer, errno will be set to
* E2BIG and NULL is returned. If the ring buffer could accommodate the size,
* but currently does not have enough space, errno is set to ENOSPC and NULL is
* returned.
*
* After initializing the sample, callers must invoke
* **user_ring_buffer__submit()** to post the sample to the kernel. Otherwise,
* the sample must be freed with **user_ring_buffer__discard()**.
*/
LIBBPF_API void *user_ring_buffer__reserve(struct user_ring_buffer *rb, __u32 size);

/**
* @brief **user_ring_buffer__reserve_blocking()** reserves a record in the
* ring buffer, possibly blocking for up to @timeout_ms until a sample becomes
* available.
* @param rb The user ring buffer.
* @param size The size of the sample, in bytes.
* @param timeout_ms The amount of time, in milliseconds, for which the caller
```

```
* should block when waiting for a sample. -1 causes the caller to block
* indefinitely.
* @return A pointer to an 8-byte
 aligned reserved region of the user ring
* buffer; NULL, and errno being set if a sample could not be reserved.
*
* This function is *not* thread safe, and callers must synchronize
* accessing this function if there are multiple producers
*
* If **timeout_ms** is -1, the function will block indefinitely until a sample
* becomes available. Otherwise, **timeout_ms** must be non-negative, or errno
* is set to EINVAL, and NULL is returned. If **timeout_ms** is 0, no blocking
* will occur and the function will return immediately after attempting to
* reserve a sample.
*
* If **size** is larger than the size of the entire ring buffer, errno is set
* to E2BIG and NULL is returned. If the ring buffer could accommodate
* **size**, but currently does not have enough space, the caller will block
* until at most **timeout_ms** has elapsed. If insufficient space is available
* at that time, errno is set to ENOSPC, and NULL is returned.
*
* The kernel guarantees that it will wake
 up this thread to check if
* sufficient space is available in the ring buffer at least once per
* invocation of the **bpf_ringbuf_drain()** helper function, provided that at
* least one sample is consumed, and the BPF program did not invoke the
* function with BPF_RB_NO_WAKEUP. A wakeup may occur sooner than that, but the
* kernel does not guarantee this. If the helper function is invoked with
* BPF_RB_FORCE_WAKEUP, a wakeup event will be sent even if no sample is
* consumed.
*
* When a sample of size **size** is found within **timeout_ms**, a pointer to
* the sample is returned. After initializing the sample, callers must invoke
* **user_ring_buffer__submit()** to post the sample to the ring buffer.
* Otherwise, the sample must be freed with **user_ring_buffer__discard()**.
*/
LIBBPF_API void *user_ring_buffer__reserve_blocking(struct user_ring_buffer *rb,
        __u32 size,
        int timeout_ms);

/**
* @brief **user_ring_buffer__submit()** submits a previously
 reserved sample
* into the ring buffer.
* @param rb The user ring buffer.
* @param sample A reserved sample.
*
* It is not necessary to synchronize amongst multiple producers when invoking
```

```
* this function.
*/
LIBBPF_API void user_ring_buffer__submit(struct user_ring_buffer *rb, void *sample);

/**
* @brief **user_ring_buffer__discard()** discards a previously reserved sample.
* @param rb The user ring buffer.
* @param sample A reserved sample.
*
* It is not necessary to synchronize amongst multiple producers when invoking
* this function.
*/
LIBBPF_API void user_ring_buffer__discard(struct user_ring_buffer *rb, void *sample);

/**
* @brief **user_ring_buffer__free()** frees a ring buffer that was previously
* created with **user_ring_buffer__new()**.
* @param rb The user ring buffer being freed.
*/
LIBBPF_API void user_ring_buffer__free(struct user_ring_buffer *rb);

/* Perf buffer APIs */
struct perf_buffer;

typedef void (*perf_buffer_sample_fn)(void *ctx, int cpu,

     void *data, __u32 size);
typedef void (*perf_buffer_lost_fn)(void *ctx, int cpu, __u64 cnt);

/* common use perf buffer options */
struct perf_buffer_opts {
 size_t sz;
 __u32 sample_period;
 size_t :0;
};
#define perf_buffer_opts__last_field sample_period

/**
* @brief **perf_buffer__new()** creates BPF perfbuf manager for a specified
* BPF_PERF_EVENT_ARRAY map
* @param map_fd FD of BPF_PERF_EVENT_ARRAY BPF map that will be used by BPF
* code to send data over to user-space
* @param page_cnt number of memory pages allocated for each per-CPU buffer
* @param sample_cb function called on each received data record
* @param lost_cb function called when record loss has occurred
* @param ctx user-provided extra context passed into *sample_cb* and *lost_cb*
* @return a new instance of struct perf_buffer on success, NULL on error with
* *errno* containing an error code
```

```
*/
LIBBPF_API struct perf_buffer *
perf_buffer__new(int map_fd, size_t page_cnt,
   perf_buffer_sample_fn
 sample_cb, perf_buffer_lost_fn lost_cb, void *ctx,
   const struct perf_buffer_opts *opts);

enum bpf_perf_event_ret {
 LIBBPF_PERF_EVENT_DONE = 0,
 LIBBPF_PERF_EVENT_ERROR = -1,
 LIBBPF_PERF_EVENT_CONT = -2,
};

struct perf_event_header;

typedef enum bpf_perf_event_ret
(*perf_buffer_event_fn)(void *ctx, int cpu, struct perf_event_header *event);

/* raw perf buffer options, giving most power and control */
struct perf_buffer_raw_opts {
 size_t sz;
 long :0;
 long :0;
 /* if cpu_cnt == 0, open all on all possible CPUs (up to the number of
  * max_entries of given PERF_EVENT_ARRAY map)
  */
 int cpu_cnt;
 /* if cpu_cnt > 0, cpus is an array of CPUs to open ring buffers on */
 int *cpus;
 /* if cpu_cnt > 0, map_keys specify map keys to set per-CPU FDs for */
 int *map_keys;
};
#define perf_buffer_raw_opts__last_field map_keys

struct perf_event_attr;

LIBBPF_API struct perf_buffer *
perf_buffer__new_raw(int map_fd, size_t page_cnt, struct perf_event_attr *attr,
       perf_buffer_event_fn
 event_cb, void *ctx,
       const struct perf_buffer_raw_opts *opts);

LIBBPF_API void perf_buffer__free(struct perf_buffer *pb);
LIBBPF_API int perf_buffer__epoll_fd(const struct perf_buffer *pb);
LIBBPF_API int perf_buffer__poll(struct perf_buffer *pb, int timeout_ms);
LIBBPF_API int perf_buffer__consume(struct perf_buffer *pb);
LIBBPF_API int perf_buffer__consume_buffer(struct perf_buffer *pb, size_t buf_idx);
LIBBPF_API size_t perf_buffer__buffer_cnt(const struct perf_buffer *pb);
```

```
LIBBPF_API int perf_buffer__buffer_fd(const struct perf_buffer *pb, size_t buf_idx);
/**
* @brief **perf_buffer__buffer()** returns the per-cpu raw mmap()'ed underlying
* memory region of the ring buffer.
* This ring buffer can be used to implement a custom events consumer.
* The ring buffer starts with the *struct perf_event_mmap_page*, which
* holds the ring buffer managment fields, when accessing the header
* structure it's important to be SMP aware.
* You can refer to *perf_event_read_simple*
 for a simple example.
* @param pb the perf buffer structure
* @param buf_idx the buffer index to retreive
* @param buf (out) gets the base pointer of the mmap()'ed memory
* @param buf_size (out) gets the size of the mmap()'ed region
* @return 0 on success, negative error code for failure
*/
LIBBPF_API int perf_buffer__buffer(struct perf_buffer *pb, int buf_idx, void **buf,
      size_t *buf_size);

struct bpf_prog_linfo;
struct bpf_prog_info;

LIBBPF_API void bpf_prog_linfo__free(struct bpf_prog_linfo *prog_linfo);
LIBBPF_API struct bpf_prog_linfo *
bpf_prog_linfo__new(const struct bpf_prog_info *info);
LIBBPF_API const struct bpf_line_info *
bpf_prog_linfo__lfind_addr_func(const struct bpf_prog_linfo *prog_linfo,
   __u64 addr, __u32 func_idx, __u32 nr_skip);
LIBBPF_API const struct bpf_line_info *
bpf_prog_linfo__lfind(const struct bpf_prog_linfo *prog_linfo,
       __u32 insn_off, __u32 nr_skip);

/*
* Probe for supported system features
*
* Note that running many of
 these probes in a short amount of time can cause
* the kernel to reach the maximal size of lockable memory allowed for the
* user, causing subsequent probes to fail. In this case, the caller may want
* to adjust that limit with setrlimit().
*/

/**
* @brief **libbpf_probe_bpf_prog_type()** detects if host kernel supports
* BPF programs of a given type.
* @param prog_type BPF program type to detect kernel support for
* @param opts reserved for future extensibility, should be NULL
* @return 1, if given program type is supported; 0, if given program type is
```

```
* not supported; negative error code if feature detection failed or can't be
* performed
*
* Make sure the process has required set of CAP_* permissions (or runs as
* root) when performing feature checking.
*/
LIBBPF_API int libbpf_probe_bpf_prog_type(enum bpf_prog_type prog_type, const void *opts);
/**
* @brief **libbpf_probe_bpf_map_type()** detects if host kernel supports
* BPF maps of a given type.
* @param map_type
 BPF map type to detect kernel support for
* @param opts reserved for future extensibility, should be NULL
* @return 1, if given map type is supported; 0, if given map type is
* not supported; negative error code if feature detection failed or can't be
* performed
*
* Make sure the process has required set of CAP_* permissions (or runs as
* root) when performing feature checking.
*/
LIBBPF_API int libbpf_probe_bpf_map_type(enum bpf_map_type map_type, const void *opts);
/**
* @brief **libbpf_probe_bpf_helper()** detects if host kernel supports the
* use of a given BPF helper from specified BPF program type.
* @param prog_type BPF program type used to check the support of BPF helper
* @param helper_id BPF helper ID (enum bpf_func_id) to check support for
* @param opts reserved for future extensibility, should be NULL
* @return 1, if given combination of program type and helper is supported; 0,
* if the combination is not supported; negative error code if feature
* detection
 for provided input arguments failed or can't be performed
*
* Make sure the process has required set of CAP_* permissions (or runs as
* root) when performing feature checking.
*/
LIBBPF_API int libbpf_probe_bpf_helper(enum bpf_prog_type prog_type,
        enum bpf_func_id helper_id, const void *opts);

/**
* @brief **libbpf_num_possible_cpus()** is a helper function to get the
* number of possible CPUs that the host kernel supports and expects.
* @return number of possible CPUs; or error code on failure
*
* Example usage:
*
*     int ncpus = libbpf_num_possible_cpus();
*     if (ncpus < 0) {
*         // error handling
```

```
*     }
*     long values[ncpus];
*     bpf_map_lookup_elem(per_cpu_map_fd, key, values);
*/
LIBBPF_API int libbpf_num_possible_cpus(void);

struct bpf_map_skeleton {
 const char *name;
 struct bpf_map **map;
 void **mmaped;
};

struct bpf_prog_skeleton {
 const char *name;
 struct bpf_program **prog;
 struct bpf_link **link;
};

struct bpf_object_skeleton
 {
 size_t sz; /* size of this struct, for forward/backward compatibility */

 const char *name;
 const void *data;
 size_t data_sz;

 struct bpf_object **obj;

 int map_cnt;
 int map_skel_sz; /* sizeof(struct bpf_map_skeleton) */
 struct bpf_map_skeleton *maps;

 int prog_cnt;
 int prog_skel_sz; /* sizeof(struct bpf_prog_skeleton) */
 struct bpf_prog_skeleton *progs;
};

LIBBPF_API int
bpf_object__open_skeleton(struct bpf_object_skeleton *s,
     const struct bpf_object_open_opts *opts);
LIBBPF_API int bpf_object__load_skeleton(struct bpf_object_skeleton *s);
LIBBPF_API int bpf_object__attach_skeleton(struct bpf_object_skeleton *s);
LIBBPF_API void bpf_object__detach_skeleton(struct bpf_object_skeleton *s);
LIBBPF_API void bpf_object__destroy_skeleton(struct bpf_object_skeleton *s);

struct bpf_var_skeleton {
 const char *name;
 struct bpf_map **map;
```

```
 void **addr;
};

struct bpf_object_subskeleton {
 size_t sz; /* size of this struct, for forward/backward compatibility */

 const
 struct bpf_object *obj;

 int map_cnt;
 int map_skel_sz; /* sizeof(struct bpf_map_skeleton) */
 struct bpf_map_skeleton *maps;

 int prog_cnt;
 int prog_skel_sz; /* sizeof(struct bpf_prog_skeleton) */
 struct bpf_prog_skeleton *progs;

 int var_cnt;
 int var_skel_sz; /* sizeof(struct bpf_var_skeleton) */
 struct bpf_var_skeleton *vars;
};

LIBBPF_API int
bpf_object__open_subskeleton(struct bpf_object_subskeleton *s);
LIBBPF_API void
bpf_object__destroy_subskeleton(struct bpf_object_subskeleton *s);

struct gen_loader_opts {
 size_t sz; /* size of this struct, for forward/backward compatibility */
 const char *data;
 const char *insns;
 __u32 data_sz;
 __u32 insns_sz;
};

#define gen_loader_opts__last_field insns_sz
LIBBPF_API int bpf_object__gen_loader(struct bpf_object *obj,
        struct gen_loader_opts *opts);

enum libbpf_tristate {
 TRI_NO = 0,
 TRI_YES = 1,
 TRI_MODULE = 2,
};

struct bpf_linker_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t
```

```
 sz;
};
#define bpf_linker_opts__last_field sz

struct bpf_linker_file_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
};
#define bpf_linker_file_opts__last_field sz

struct bpf_linker;

LIBBPF_API struct bpf_linker *bpf_linker__new(const char *filename, struct bpf_linker_opts *opts);
LIBBPF_API int bpf_linker__add_file(struct bpf_linker *linker,
        const char *filename,
        const struct bpf_linker_file_opts *opts);
LIBBPF_API int bpf_linker__finalize(struct bpf_linker *linker);
LIBBPF_API void bpf_linker__free(struct bpf_linker *linker);

/*
* Custom handling of BPF program's SEC() definitions
*/

struct bpf_prog_load_opts; /* defined in bpf.h */

/* Called during bpf_object__open() for each recognized BPF program. Callback
* can use various bpf_program__set_*() setters to adjust whatever properties
* are necessary.
*/
typedef int (*libbpf_prog_setup_fn_t)(struct bpf_program *prog, long cookie);

/* Called right before libbpf performs
 bpf_prog_load() to load BPF program
* into the kernel. Callback can adjust opts as necessary.
*/
typedef int (*libbpf_prog_prepare_load_fn_t)(struct bpf_program *prog,
          struct bpf_prog_load_opts *opts, long cookie);

/* Called during skeleton attach or through bpf_program__attach(). If
* auto-attach is not supported, callback should return 0 and set link to
* NULL (it's not considered an error during skeleton attach, but it will be
* an error for bpf_program__attach() calls). On error, error should be
* returned directly and link set to NULL. On success, return 0 and set link
* to a valid struct bpf_link.
*/
typedef int (*libbpf_prog_attach_fn_t)(const struct bpf_program *prog, long cookie,
           struct bpf_link **link);
```

```
struct libbpf_prog_handler_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 /* User-provided value that is passed to prog_setup_fn,
  * prog_prepare_load_fn, and prog_attach_fn callbacks. Allows user to
  * register
 one set of callbacks for multiple SEC() definitions and
  * still be able to distinguish them, if necessary. For example,
  * libbpf itself is using this to pass necessary flags (e.g.,
  * sleepable flag) to a common internal SEC() handler.
  */
 long cookie;
 /* BPF program initialization callback (see libbpf_prog_setup_fn_t).
  * Callback is optional, pass NULL if it's not necessary.
  */
 libbpf_prog_setup_fn_t prog_setup_fn;
 /* BPF program loading callback (see libbpf_prog_prepare_load_fn_t).
  * Callback is optional, pass NULL if it's not necessary.
  */
 libbpf_prog_prepare_load_fn_t prog_prepare_load_fn;
 /* BPF program attach callback (see libbpf_prog_attach_fn_t).
  * Callback is optional, pass NULL if it's not necessary.
  */
 libbpf_prog_attach_fn_t prog_attach_fn;
};
#define libbpf_prog_handler_opts__last_field prog_attach_fn

/**
* @brief **libbpf_register_prog_handler()** registers a custom BPF program
* SEC() handler.
* @param sec section prefix for which custom
 handler is registered
* @param prog_type BPF program type associated with specified section
* @param exp_attach_type Expected BPF attach type associated with specified section
* @param opts optional cookie, callbacks, and other extra options
* @return Non-negative handler ID is returned on success. This handler ID has
* to be passed to *libbpf_unregister_prog_handler()* to unregister such
* custom handler. Negative error code is returned on error.
*
* *sec* defines which SEC() definitions are handled by this custom handler
* registration. *sec* can have few different forms:
*   - if *sec* is just a plain string (e.g., "abc"), it will match only
*   SEC("abc"). If BPF program specifies SEC("abc/whatever") it will result
*   in an error;
*   - if *sec* is of the form "abc/", proper SEC() form is
*   SEC("abc/something"), where acceptable "something" should be checked by
*   *prog_init_fn* callback, if there are additional restrictions;
*   - if *sec* is of the form "abc+",
```

```
 it will successfully match both
*   SEC("abc") and SEC("abc/whatever") forms;
*   - if *sec* is NULL, custom handler is registered for any BPF program that
*   doesn't match any of the registered (custom or libbpf's own) SEC()
*   handlers. There could be only one such generic custom handler registered
*   at any given time.
*
* All custom handlers (except the one with *sec* == NULL) are processed
* before libbpf's own SEC() handlers. It is allowed to "override" libbpf's
* SEC() handlers by registering custom ones for the same section prefix
* (i.e., it's possible to have custom SEC("perf_event/LLC-load-misses")
* handler).
*
* Note, like much of global libbpf APIs (e.g., libbpf_set_print(),
* libbpf_set_strict_mode(), etc)) these APIs are not thread-safe. User needs
* to ensure synchronization if there is a risk of running this API from
* multiple threads simultaneously.
*/
LIBBPF_API int libbpf_register_prog_handler(const char *sec,
        enum bpf_prog_type prog_type,

    enum bpf_attach_type exp_attach_type,
        const struct libbpf_prog_handler_opts *opts);
/**
* @brief *libbpf_unregister_prog_handler()* unregisters previously registered
* custom BPF program SEC() handler.
* @param handler_id handler ID returned by *libbpf_register_prog_handler()*
* after successful registration
* @return 0 on success, negative error code if handler isn't found
*
* Note, like much of global libbpf APIs (e.g., libbpf_set_print(),
* libbpf_set_strict_mode(), etc)) these APIs are not thread-safe. User needs
* to ensure synchronization if there is a risk of running this API from
* multiple threads simultaneously.
*/
LIBBPF_API int libbpf_unregister_prog_handler(int handler_id);

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* __LIBBPF_LIBBPF_H */
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_REASONS_H__
#define __CALI_REASONS_H__
```

```
// The following values are used as index to counters map, and should be kept in sync
// with constants defined in bpf/counters/counters.go
enum calico_reason {
 CALI_REASON_UNKNOWN,
 COUNTER_TOTAL_PACKETS = CALI_REASON_UNKNOWN,
 CALI_REASON_ACCEPTED_BY_FAILSAFE,
 CALI_REASON_ACCEPTED_BY_POLICY,
 CALI_REASON_BYPASS,
 CALI_REASON_DROPPED_BY_POLICY,
 CALI_REASON_SHORT,
 CALI_REASON_CSUM_FAIL,
 CALI_REASON_IP_OPTIONS,
 CALI_REASON_IP_MALFORMED,
 CALI_REASON_ENCAP_FAIL,
 CALI_REASON_DECAP_FAIL,
 CALI_REASON_UNAUTH_SOURCE,
 CALI_REASON_RT_UNKNOWN,
 CALI_REASON_BLACK_HOLE,
 CALI_REASON_ACCEPTED_BY_XDP, // Not used by counters map
 CALI_REASON_WEP_NOT_READY,
 CALI_REASON_NATIFACE,
};

#endif /* __CALI_REASONS_H__ */
// Project Calico BPF dataplane programs.
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#ifndef __CALI_BPF_TYPES_H__
#define __CALI_BPF_TYPES_H__

#include <linux/types.h>
#include <linux/bpf.h>
#include <linux/pkt_cls.h>
#ifdef IPVER6
#include <linux/ipv6.h>
#include <linux/icmpv6.h>
#else
#include <linux/ip.h>
#include <linux/icmp.h>
#endif
#include <linux/tcp.h>
#include <linux/in.h>
#include <linux/udp.h>
#include "bpf.h"
#include "arp.h"
#include "conntrack_types.h"
```

```
#include "nat_types.h"
#include "reasons.h"

#define IPV4_UDP_SIZE  (sizeof(struct iphdr) + sizeof(struct udphdr))
#define ETH_IPV4_UDP_SIZE (sizeof(struct ethhdr) + IPV4_UDP_SIZE)

#define ETH_SIZE (sizeof(struct ethhdr))
#ifdef IPVER6
#define IP_SIZE (sizeof(struct ipv6hdr))
#define ICMP_SIZE (sizeof(struct icmp6hdr))
#else
#define IP_SIZE (sizeof(struct iphdr))
#define ICMP_SIZE (sizeof(struct icmphdr))
#endif
#define UDP_SIZE (sizeof(struct udphdr))
#define
 TCP_SIZE (sizeof(struct tcphdr))

#define MAX_RULE_IDS    32

// struct cali_tc_state holds state that is passed between the BPF programs.
// WARNING: must be kept in sync with
// - the definitions in bpf/polprog/pol_prog_builder.go.
// - the Go version of the struct in bpf/state/map.go
struct cali_tc_state {
 /* Initial IP read from the packet, updated to host's IP when doing NAT encap/ICMP error.
  * updated when doing CALI_CT_ESTABLISHED_SNAT handling. Used for FIB lookup. */
 DECLARE_IP_ADDR(ip_src);
 /* Initial IP read from packet. Updated when doing encap and ICMP errors or CALI_CT_ESTABLISHED_DNAT.
  * If connect-time load balancing is enabled, this will be the post-NAT IP because the connect-time
  * load balancer gets in before TC. */
 DECLARE_IP_ADDR(ip_dst);
 /* Set when invoking the policy program; if no NAT, ip_dst; otherwise, the pre-DNAT IP.  If the connect
  * time load balancer is enabled, this may be different from ip_dst. */
 DECLARE_IP_ADDR(pre_nat_ip_dst);
 /*
 If no NAT, ip_dst.  Otherwise the NAT dest that we look up from the NAT maps or the conntrack entry
  * for CALI_CT_ESTABLISHED_DNAT. */
 DECLARE_IP_ADDR(post_nat_ip_dst);
 union {
  /* For packets that arrived over our VXLAN tunnel, the source IP of the tunnel packet.
   * Zeroed out when we decide to respond with an ICMP error.
   * Also used to stash the ICMP MTU when calling the ICMP response program. */
  DECLARE_IP_ADDR(tun_ip);
  __u32 icmp_un;
 };
 __u16 ihl;
 __u16 unused;
```

```
/* Return code from the policy program CALI_POL_DENY/ALLOW etc. */
__s32 pol_rc;
/* Source port of the packet; updated on the CALI_CT_ESTABLISHED_SNAT path or when doing encap.
 * zeroed out on the ICMP response path. */
__u16 sport;
union
{
 /* dport is the destination port of the packet; it may be pre or post NAT */
 __u16 dport;
 struct
 {
  /* Only used to pass type/code to the program that generates and
   * send an ICMP error response and to the policy program.
   */
  __u8 icmp_type;
  __u8
icmp_code;
 };
};
/* Pre-NAT dest port; set similarly to pre_nat_ip_dst. */
__u16 pre_nat_dport;
/* Post-NAT dest port; set similarly to post_nat_ip_dst. */
__u16 post_nat_dport;
/* Packet IP proto; updated to UDP when we encap. */
__u8 ip_proto;
/* Flags from enum cali_state_flags. */
__u8 __pad;
/* Packet size filled from iphdr->tot_len in tc_state_fill_from_iphdr(). */
__be16 ip_size;
/* Count of rules that were hit while processing policy. */
__u32 rules_hit;
/* Record of the rule IDs of the rules that were hit. */
__u64 rule_ids[MAX_RULE_IDS];

__u64 flags;
/* Result of the conntrack lookup. */
struct calico_ct_result ct_result; /* 28 bytes */

/* Result of the NAT calculation.  Zeroed if there is no DNAT. */
struct calico_nat_dest nat_dest; /* 8 bytes */
__u64 prog_start_time;
/* Temporary store for the MASQ source when policing
 * pod->service->self. We use it to restore ip_src to create
 * appropriate conntrack entry.
 */
DECLARE_IP_ADDR(ip_src_masq);
#ifndef
```

```
 IPVER6
 __u8 __pad_ipv4[48];
#endif
};

struct pkt_scratch {
 __u8 l4[24]; /* 20 bytes to fit udp, icmp, tcp w/o options and 24 to make 8-aligned */
 struct ct_create_ctx ct_ctx_nat;
 struct calico_ct_key ct_key;
};

enum cali_state_flags {
 /* CALI_ST_NAT_OUTGOING is set if this packet is from a NAT-outgoing IP pool and is leaving the
  * Calico network. Such packets are dropped through to iptables for SNAT. */
 CALI_ST_NAT_OUTGOING   = 0x01,
 /* CALI_ST_SKIP_FIB is set if the BPF FIB lookup should be skipped for this packet (for example, to
  * allow for the kernel RPF check to run. */
 CALI_ST_SKIP_FIB   = 0x02,
 /* CALI_ST_DEST_IS_HOST is set if the packet is towards the host namespace and the destination
  * belongs to the host. */
 CALI_ST_DEST_IS_HOST   = 0x04,
 /* CALI_ST_SRC_IS_HOST is set if the packet is heading away from the host namespace and the source
  * belongs to the host. */
 CALI_ST_SRC_IS_HOST   = 0x08,
 /* CALI_ST_SUPPRESS_CT_STATE prevents
 the creation of any new CT state. */
 CALI_ST_SUPPRESS_CT_STATE = 0x10,
 /* CALI_ST_SKIP_POLICY is set when the policy program is skipped. */
 CALI_ST_SKIP_POLICY   = 0x20,
 /* CALI_ST_HOST_PSNAT is set when we are resolving host source port collision. */
 CALI_ST_HOST_PSNAT   = 0x40,
 /* CALI_ST_CT_NP_LOOP tells CT when creating an entry that we are
  * turning this packet around from a nodeport to a local pod. */
 CALI_ST_CT_NP_LOOP   = 0x80,
 /* CALI_ST_CT_NP_REMOTE is set when host is accessing a remote nodeport. */
 CALI_ST_CT_NP_REMOTE   = 0x100,
 /* CALI_ST_NAT_EXCLUDE is set when there is a NAT hit, but we don't want to resolve (such as node local
DNS). */
 CALI_ST_NAT_EXCLUDE       = 0x200,
 /* CALI_ST_LOG_PACKET is set by policy program if a log rule was hit. */
 CALI_ST_LOG_PACKET        = 0x400,
};

struct fwd {
 int res;
 __u32 mark;
 enum calico_reason reason;
#if CALI_FIB_ENABLED
```

```
 __u32 fib_flags;
 bool fib;
#endif
};

struct cali_tc_ctx {
#if !CALI_F_XDP
 struct __sk_buff
 *skb;
#else
 struct xdp_md *xdp;
#endif

 /* Our single copies of the data start/end pointers loaded from the skb. */
 void *data_start;
 void *data_end;
 void *ip_header;
 long ipheader_len;
 void *nh;

 struct cali_tc_state *state;
#if !CALI_F_XDP
 const volatile struct cali_tc_globals *globals;
#else
 const volatile struct cali_xdp_globals *xdp_globals; /* XXX we must split the state between tc/xdp */
#endif
 struct calico_nat_dest *nat_dest;
 struct fwd fwd;
 void *counters;
 struct pkt_scratch *scratch;
};

#define DECLARE_TC_CTX(NAME, ...)      \
 struct cali_tc_ctx NAME = ({      \
   struct cali_tc_state *state = state_get();  \
   if (!state) {      \
    CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "State map lookup failed: DROP\n"); \
    bpf_exit(TC_ACT_SHOT);    \
   }       \
   void * counters = counters_get(skb->ifindex);  \
   if (!counters) {     \
    CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "no counters: DROP\n");  \
    bpf_exit(TC_ACT_SHOT);    \
   }       \
   struct
 cali_tc_globals *gl = state_get_globals_tc(); \
   if (!gl) {      \
    CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "no globals: DROP\n");  \
```

```
    bpf_exit(TC_ACT_SHOT);    \
   }       \
   struct pkt_scratch *scratch = (void *)(gl->__scratch);  \
   struct cali_tc_ctx x = {    \
    .state = state,     \
    .counters = counters,    \
    .globals = gl,     \
    .scratch = scratch,    \
    .nh = &scratch->l4,    \
    __VA_ARGS__     \
   };       \
   if (x.ipheader_len == 0) {    \
    x.ipheader_len = state->ihl;   \
   }       \
         \
   x;       \
 })

#define STATE (ctx->state)

#define fib_params(x) ((struct bpf_fib_lookup *)((x)->scratch))

#ifdef IPVER6
static CALI_BPF_INLINE struct ipv6hdr* ip_hdr(struct cali_tc_ctx *ctx)
{
 return (struct ipv6hdr *)ctx->ip_header;
}

static CALI_BPF_INLINE struct icmp6hdr* icmp_hdr(struct cali_tc_ctx *ctx)
{
 return (struct icmp6hdr *)ctx->nh;
}

#define ip_hdr_set_ip(ctx, field, ip) do {     \
 struct in6_addr *addr = &(ip_hdr(ctx)->field);    \
 addr->in6_u.u6_addr32[0]
 = ip.a;     \
 addr->in6_u.u6_addr32[1] = ip.b;     \
 addr->in6_u.u6_addr32[2] = ip.c;     \
 addr->in6_u.u6_addr32[3] = ip.d;     \
} while(0)

#else

static CALI_BPF_INLINE struct iphdr* ip_hdr(struct cali_tc_ctx *ctx)
{
 return (struct iphdr *)ctx->ip_header;
}
```

```
#define ip_hdr_set_ip(ctx, field, ip) do {     \
 ip_hdr(ctx)->field = ip;      \
} while (0)

static CALI_BPF_INLINE struct icmphdr* icmp_hdr(struct cali_tc_ctx *ctx)
{
 return (struct icmphdr *)ctx->nh;
}

#endif

static CALI_BPF_INLINE struct ethhdr* eth_hdr(struct cali_tc_ctx *ctx)
{
 return (struct ethhdr *)ctx->data_start;
}

static CALI_BPF_INLINE struct tcphdr* tcp_hdr(struct cali_tc_ctx *ctx)
{
 return (struct tcphdr *)ctx->nh;
}

static CALI_BPF_INLINE struct udphdr* udp_hdr(struct cali_tc_ctx *ctx)
{
 return (struct udphdr *)ctx->nh;
}

static CALI_BPF_INLINE __u32 ctx_ifindex(struct cali_tc_ctx *ctx)
{
#if CALI_F_XDP
 return ctx->xdp->ingress_ifindex;
#else
 return ctx->skb->ifindex;
#endif
}

static
 CALI_BPF_INLINE int l4_hdr_len(struct cali_tc_ctx *ctx)
{
 switch (ctx->state->ip_proto) {
 case IPPROTO_TCP:
  return TCP_SIZE;
 case IPPROTO_UDP:
  return UDP_SIZE;
 case IPPROTO_ICMP:
  ICMP_SIZE;
 }
```

```
 return 0;
}

#define IP_VOID 0
#define IP_EQ(ip1, ip2) ((ip1) == (ip2))
#define IP_SET(var, val) ((var) = (val))


#endif /* __CALI_BPF_TYPES_H__ */
// Project Calico BPF dataplane programs.
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#ifndef __CALI_NAT6_H__
#define __CALI_NAT6_H__

#include <stddef.h>

#include <linux/if_ether.h>
#include <linux/udp.h>

#include "bpf.h"
#include "skb.h"
#include "routes.h"
#include "nat_types.h"

/* Number of bytes we add to a packet when we do encap. */
#define VXLAN_ENCAP_SIZE (sizeof(struct ethhdr) + sizeof(struct iphdr) + \
    sizeof(struct udphdr) + sizeof(struct vxlanhdr))

static CALI_BPF_INLINE int vxlan_encap(struct cali_tc_ctx *ctx, ipv6_addr_t *ip_src, ipv6_addr_t *ip_dst, __u16
src_port)
{
 __u32 new_hdrsz = sizeof(struct ethhdr) + sizeof(struct ipv6hdr) +
   sizeof(struct udphdr) + sizeof(struct vxlanhdr);

 if (bpf_skb_adjust_room(ctx->skb, new_hdrsz, BPF_ADJ_ROOM_MAC,
        BPF_F_ADJ_ROOM_ENCAP_L4_UDP |
        BPF_F_ADJ_ROOM_ENCAP_L3_IPV6 |
        BPF_F_ADJ_ROOM_ENCAP_L2(sizeof(struct ethhdr)))) {
  return
 -1;
 }

 if (skb_refresh_validate_ptrs(ctx, new_hdrsz)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("Too short VXLAN encap\n");
  return -1;
```

```
 }

 // Note: assuming L2 packet here so this code can't be used on an L3 device.
 struct udphdr *udp = (struct udphdr*) ((void *)ip_hdr(ctx) + IP_SIZE);
 struct vxlanhdr *vxlan = (void *)(udp + 1);
 struct ethhdr *eth_inner = (void *)(vxlan+1);
 struct ipv6hdr *ip_inner = (void*)(eth_inner+1);

 /* Copy the original IP header. Since it is already DNATed, the dest IP is
  * already set. All we need to do is to change the source IP
  */
 *ip_hdr(ctx) = *ip_inner;

 /* decrement TTL for the inner IP header. TTL must be > 1 to get here */
 ip_inner->hop_limit--;

 ipv6_addr_t_to_ipv6hdr_ip(&ip_hdr(ctx)->saddr, ip_src);
 ipv6_addr_t_to_ipv6hdr_ip(&ip_hdr(ctx)->daddr, ip_dst);
 ip_hdr(ctx)->payload_len = bpf_htons(bpf_ntohs(ip_hdr(ctx)->payload_len) + new_hdrsz);
 ip_hdr(ctx)->nexthdr = IPPROTO_UDP;

 udp->source = bpf_htons(src_port);
 udp->dest
 = bpf_htons(VXLAN_PORT);
 udp->len = bpf_htons(bpf_ntohs(ip_hdr(ctx)->payload_len) - sizeof(struct iphdr));
 /* XXX we leave udp->check == 0 which is not legal in IPv6, but we are
  * the only ones parsing that packet!
  */

 *((__u8*)&vxlan->flags) = 1 << 3; /* set the I flag to make the VNI valid */
 vxlan->vni = bpf_htonl(CALI_VXLAN_VNI) >> 8; /* it is actually 24-bit, last 8 reserved */

 /* keep eth_inner MACs zeroed, it is useless after decap */
 eth_inner->h_proto = eth_hdr(ctx)->h_proto;

 CALI_DEBUG("vxlan encap %x : %x\n",
  bpf_ntohl(ip_hdr(ctx)->saddr.in6_u.u6_addr32[3]), bpf_ntohl(ip_hdr(ctx)->daddr.in6_u.u6_addr32[3]));

 return 0;
}

static CALI_BPF_INLINE int vxlan_decap(struct __sk_buff *skb)
{
 __u32 extra_hdrsz;
 int ret = -1;

 extra_hdrsz = sizeof(struct ethhdr) + sizeof(struct ipv6hdr) +
  sizeof(struct udphdr) + sizeof(struct vxlanhdr);
```

```
 ret = bpf_skb_adjust_room(skb, -extra_hdrsz, BPF_ADJ_ROOM_MAC | BPF_F_ADJ_ROOM_FIXED_GSO, 0);

 return ret;
}

static
 CALI_BPF_INLINE bool vxlan_size_ok(struct cali_tc_ctx *ctx)
{
 return !skb_refresh_validate_ptrs(ctx, UDP_SIZE + sizeof(struct vxlanhdr));
}

static CALI_BPF_INLINE __u32 vxlan_vni(struct cali_tc_ctx *ctx)
{
 struct vxlanhdr *vxlan;

 vxlan = skb_ptr_after(skb, udp_hdr(ctx));

 return bpf_ntohl(vxlan->vni << 8); /* 24-bit field, last 8 reserved */
}

static CALI_BPF_INLINE bool vxlan_vni_is_valid(struct cali_tc_ctx *ctx)
{
 struct vxlanhdr *vxlan;

 vxlan = skb_ptr_after(ctx->skb, udp_hdr(ctx));

 return *((__u8*)&vxlan->flags) & (1 << 3);
}

#endif /* __CALI_NAT6_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __BPF_HELPERS__
#define __BPF_HELPERS__

/*
* Note that bpf programs need to include either
* vmlinux.h (auto-generated from BTF) or linux/types.h
* in advance since bpf_helper_defs.h uses such types
* as __u64.
*/
#include "bpf_helper_defs.h"

#define __uint(name, val) int (*name)[val]
#define __type(name, val) typeof(val) *name
#define __array(name, val) typeof(val) *name[]
#define __ulong(name, val) enum { ___bpf_concat(__unique_value, __COUNTER__) = val } name
```

```
/*
* Helper macro to place programs, maps, license in
* different sections in elf_bpf file. Section names
* are interpreted by libbpf depending on the context (BPF programs, BPF maps,
* extern variables, etc).
* To allow use of SEC() with externs (e.g., for extern .maps declarations),
* make sure __attribute__((unused)) doesn't trigger compilation warning.
*/
#if __GNUC__ && !__clang__

/*
* Pragma macros are broken on GCC
* https://gcc.gnu.org/bugzilla/show_bug.cgi?id=55578
 * https://gcc.gnu.org/bugzilla/show_bug.cgi?id=90400
*/
#define SEC(name) __attribute__((section(name), used))

#else

#define SEC(name) \
 _Pragma("GCC diagnostic push")         \
 _Pragma("GCC diagnostic ignored \"-Wignored-attributes\"")     \
 __attribute__((section(name), used))        \
 _Pragma("GCC diagnostic pop")         \

#endif

/* Avoid 'linux/stddef.h' definition of '__always_inline'. */
#undef __always_inline
#define __always_inline inline __attribute__((always_inline))

#ifndef __noinline
#define __noinline __attribute__((noinline))
#endif
#ifndef __weak
#define __weak __attribute__((weak))
#endif

/*
* Use __hidden attribute to mark a non-static BPF subprogram effectively
* static for BPF verifier's verification algorithm purposes, allowing more
* extensive and permissive BPF verification process, taking into account
* subprogram's caller context.
*/
#define __hidden __attribute__((visibility("hidden")))

/* When utilizing vmlinux.h
```

```
 with BPF CO-RE, user BPF programs can't include
* any system-level headers (such as stddef.h, linux/version.h, etc), and
* commonly-used macros like NULL and KERNEL_VERSION aren't available through
* vmlinux.h. This just adds unnecessary hurdles and forces users to re-define
* them on their own. So as a convenience, provide such definitions here.
*/
#ifndef NULL
#define NULL ((void *)0)
#endif

#ifndef KERNEL_VERSION
#define KERNEL_VERSION(a, b, c) (((a) << 16) + ((b) << 8) + ((c) > 255 ? 255 : (c)))
#endif

/*
* Helper macros to manipulate data structures
*/

/* offsetof() definition that uses __builtin_offset() might not preserve field
* offset CO-RE relocation properly, so force-redefine offsetof() using
* old-school approach which works with CO-RE correctly
*/
#undef offsetof
#define offsetof(type, member) ((unsigned long)&((type *)0)->member)

/* redefined container_of() to ensure we use the above offsetof() macro */
#undef container_of
#define container_of(ptr, type, member)    \
 ({       \
  void
 *__mptr = (void *)(ptr);   \
  ((type *)(__mptr - offsetof(type, member))); \
 })

/*
* Compiler (optimization) barrier.
*/
#ifndef barrier
#define barrier() asm volatile("" ::: "memory")
#endif

/* Variable-specific compiler (optimization) barrier. It's a no-op which makes
* compiler believe that there is some black box modification of a given
* variable and thus prevents compiler from making extra assumption about its
* value and potential simplifications and optimizations on this variable.
*
* E.g., compiler might often delay or even omit 32-bit to 64-bit casting of
* a variable, making some code patterns unverifiable. Putting barrier_var()
```

```
* in place will ensure that cast is performed before the barrier_var()
* invocation, because compiler has to pessimistically assume that embedded
* asm section might perform some extra operations on that variable.
*
* This is a variable-specific variant of more global barrier().
*/
#ifndef barrier_var
#define
 barrier_var(var) asm volatile("" : "+r"(var))
#endif

/*
* Helper macro to throw a compilation error if __bpf_unreachable() gets
* built into the resulting code. This works given BPF back end does not
* implement __builtin_trap(). This is useful to assert that certain paths
* of the program code are never used and hence eliminated by the compiler.
*
* For example, consider a switch statement that covers known cases used by
* the program. __bpf_unreachable() can then reside in the default case. If
* the program gets extended such that a case is not covered in the switch
* statement, then it will throw a build error due to the default case not
* being compiled out.
*/
#ifndef __bpf_unreachable
# define __bpf_unreachable() __builtin_trap()
#endif

/*
* Helper function to perform a tail call with a constant/immediate map slot.
*/
#if (defined(__clang__) && __clang_major__ >= 8) || (!defined(__clang__) && __GNUC__ > 12)
#if defined(__bpf__)
static __always_inline void
bpf_tail_call_static(void
 *ctx, const void *map, const __u32 slot)
{
 if (!__builtin_constant_p(slot))
  __bpf_unreachable();

 /*
  * Provide a hard guarantee that LLVM won't optimize setting r2 (map
  * pointer) and r3 (constant map index) from _different paths_ ending
  * up at the _same_ call insn as otherwise we won't be able to use the
  * jmpq/nopl retpoline-free patching by the x86-64 JIT in the kernel
  * given they mismatch. See also d2e4c1e6c294 ("bpf: Constant map key
  * tracking for prog array pokes") for details on verifier tracking.
  *
  * Note on clobber list: we need to stay in-line with BPF calling
```

```
  * convention, so even if we don't end up using r0, r4, r5, we need
  * to mark them as clobber so that LLVM doesn't end up using them
  * before / after the call.
  */
 asm volatile("r1 = %[ctx]\n\t"
       "r2 = %[map]\n\t"
       "r3 = %[slot]\n\t"
       "call 12"
       :: [ctx]"r"(ctx), [map]"r"(map), [slot]"i"(slot)
       : "r0", "r1", "r2", "r3", "r4", "r5");
}
#endif
#endif

enum
 libbpf_pin_type {
 LIBBPF_PIN_NONE,
 /* PIN_BY_NAME: pin maps by name (in /sys/fs/bpf by default) */
 LIBBPF_PIN_BY_NAME,
};

enum libbpf_tristate {
 TRI_NO = 0,
 TRI_YES = 1,
 TRI_MODULE = 2,
};

#define __kconfig __attribute__((section(".kconfig")))
#define __ksym __attribute__((section(".ksyms")))
#define __kptr_untrusted __attribute__((btf_type_tag("kptr_untrusted")))
#define __kptr __attribute__((btf_type_tag("kptr")))
#define __percpu_kptr __attribute__((btf_type_tag("percpu_kptr")))

#if defined (__clang__)
#define bpf_ksym_exists(sym) ({      \
 _Static_assert(!__builtin_constant_p(!!sym),   \
        #sym " should be marked as __weak");  \
 !!sym;       \
})
#elif __GNUC__ > 8
#define bpf_ksym_exists(sym) ({      \
 _Static_assert(__builtin_has_attribute (*sym, __weak__), \
        #sym " should be marked as __weak");  \
 !!sym;       \
})
#else
#define bpf_ksym_exists(sym) !!sym
#endif
```

```
#define __arg_ctx __attribute__((btf_decl_tag("arg:ctx")))
#define
 __arg_nonnull __attribute((btf_decl_tag("arg:nonnull")))
#define __arg_nullable __attribute((btf_decl_tag("arg:nullable")))
#define __arg_trusted __attribute((btf_decl_tag("arg:trusted")))
#define __arg_arena __attribute((btf_decl_tag("arg:arena")))

#ifndef ___bpf_concat
#define ___bpf_concat(a, b) a ## b
#endif
#ifndef ___bpf_apply
#define ___bpf_apply(fn, n) ___bpf_concat(fn, n)
#endif
#ifndef ___bpf_nth
#define ___bpf_nth(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _a, _b, _c, N, ...) N
#endif
#ifndef ___bpf_narg
#define ___bpf_narg(...) \
 ___bpf_nth(_, ##__VA_ARGS__, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0)
#endif

#define ___bpf_fill0(arr, p, x) do {} while (0)
#define ___bpf_fill1(arr, p, x) arr[p] = x
#define ___bpf_fill2(arr, p, x, args...) arr[p] = x; ___bpf_fill1(arr, p + 1, args)
#define ___bpf_fill3(arr, p, x, args...) arr[p] = x; ___bpf_fill2(arr, p + 1, args)
#define ___bpf_fill4(arr, p, x, args...) arr[p] = x; ___bpf_fill3(arr, p + 1, args)
#define ___bpf_fill5(arr, p, x,
 args...) arr[p] = x; ___bpf_fill4(arr, p + 1, args)
#define ___bpf_fill6(arr, p, x, args...) arr[p] = x; ___bpf_fill5(arr, p + 1, args)
#define ___bpf_fill7(arr, p, x, args...) arr[p] = x; ___bpf_fill6(arr, p + 1, args)
#define ___bpf_fill8(arr, p, x, args...) arr[p] = x; ___bpf_fill7(arr, p + 1, args)
#define ___bpf_fill9(arr, p, x, args...) arr[p] = x; ___bpf_fill8(arr, p + 1, args)
#define ___bpf_fill10(arr, p, x, args...) arr[p] = x; ___bpf_fill9(arr, p + 1, args)
#define ___bpf_fill11(arr, p, x, args...) arr[p] = x; ___bpf_fill10(arr, p + 1, args)
#define ___bpf_fill12(arr, p, x, args...) arr[p] = x; ___bpf_fill11(arr, p + 1, args)
#define ___bpf_fill(arr, args...) \
 ___bpf_apply(___bpf_fill, ___bpf_narg(args))(arr, 0, args)

/*
* BPF_SEQ_PRINTF to wrap bpf_seq_printf to-be-printed values
* in a structure.
*/
#define BPF_SEQ_PRINTF(seq, fmt, args...)   \
({        \
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
        \
```

```
 _Pragma("GCC
 diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
        \
 bpf_seq_printf(seq, ___fmt, sizeof(___fmt),  \
         ___param, sizeof(___param));  \
})

/*
* BPF_SNPRINTF wraps the bpf_snprintf helper with variadic arguments instead of
* an array of u64.
*/
#define BPF_SNPRINTF(out, out_size, fmt, args...)  \
({        \
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
        \
 _Pragma("GCC diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
        \
 bpf_snprintf(out, out_size, ___fmt,   \
       ___param, sizeof(___param));  \
})

#ifdef BPF_NO_GLOBAL_DATA
#define BPF_PRINTK_FMT_MOD
#else
#define BPF_PRINTK_FMT_MOD static const
#endif

#define __bpf_printk(fmt, ...)    \
({       \
 BPF_PRINTK_FMT_MOD char ____fmt[] = fmt; \
 bpf_trace_printk(____fmt,
 sizeof(____fmt), \
    ##__VA_ARGS__);  \
})

/*
* __bpf_vprintk wraps the bpf_trace_vprintk helper with variadic arguments
* instead of an array of u64.
*/
#define __bpf_vprintk(fmt, args...)    \
({        \
```

```
 static const char ___fmt[] = fmt;   \
 unsigned long long ___param[___bpf_narg(args)];  \
        \
 _Pragma("GCC diagnostic push")    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"") \
 ___bpf_fill(___param, args);    \
 _Pragma("GCC diagnostic pop")    \
        \
 bpf_trace_vprintk(___fmt, sizeof(___fmt),  \
     ___param, sizeof(___param));  \
})

/* Use __bpf_printk when bpf_printk call has 3 or fewer fmt args
* Otherwise use __bpf_vprintk
*/
#define ___bpf_pick_printk(...) \
 ___bpf_nth(_, ##__VA_ARGS__, __bpf_vprintk, __bpf_vprintk, __bpf_vprintk, \
     __bpf_vprintk, __bpf_vprintk, __bpf_vprintk, __bpf_vprintk,  \
     __bpf_vprintk, __bpf_vprintk, __bpf_printk /*3*/, __bpf_printk /*2*/,\
     __bpf_printk /*1*/, __bpf_printk /*0*/)

/* Helper
 macro to print out debug messages */
#define bpf_printk(fmt, args...) ___bpf_pick_printk(args)(fmt, ##args)

struct bpf_iter_num;

extern int bpf_iter_num_new(struct bpf_iter_num *it, int start, int end) __weak __ksym;
extern int *bpf_iter_num_next(struct bpf_iter_num *it) __weak __ksym;
extern void bpf_iter_num_destroy(struct bpf_iter_num *it) __weak __ksym;

#ifndef bpf_for_each
/* bpf_for_each(iter_type, cur_elem, args...) provides generic construct for
* using BPF open-coded iterators without having to write mundane explicit
* low-level loop logic. Instead, it provides for()-like generic construct
* that can be used pretty naturally. E.g., for some hypothetical cgroup
* iterator, you'd write:
*
* struct cgroup *cg, *parent_cg = <...>;
*
* bpf_for_each(cgroup, cg, parent_cg, CG_ITER_CHILDREN) {
*     bpf_printk("Child cgroup id = %d", cg->cgroup_id);
*     if (cg->cgroup_id == 123)
*         break;
* }
*
* I.e., it looks almost like high-level for each loop in other
```

```
 languages,
* supports continue/break, and is verifiable by BPF verifier.
*
* For iterating integers, the difference betwen bpf_for_each(num, i, N, M)
* and bpf_for(i, N, M) is in that bpf_for() provides additional proof to
* verifier that i is in [N, M) range, and in bpf_for_each() case i is `int
* *`, not just `int`. So for integers bpf_for() is more convenient.
*
* Note: this macro relies on C99 feature of allowing to declare variables
* inside for() loop, bound to for() loop lifetime. It also utilizes GCC
* extension: __attribute__((cleanup(<func>))), supported by both GCC and
* Clang.
*/
#define bpf_for_each(type, cur, args...) for (       \
 /* initialize and define destructor */       \
 struct bpf_iter_##type ___it __attribute__((aligned(8), /* enforce, just in case */, \
         cleanup(bpf_iter_##type##_destroy))), \
 /* ___p pointer is just to call bpf_iter_##type##_new() *once* to init ___it */  \
         *___p __attribute__((unused)) = (    \
     bpf_iter_##type##_new(&___it,
 ##args),   \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_##type##_destroy() when used from cleanup() attribute */  \
     (void)bpf_iter_##type##_destroy, (void *)0);  \
 /* iteration and termination check */       \
 (((cur) = bpf_iter_##type##_next(&___it)));      \
)
#endif /* bpf_for_each */

#ifndef bpf_for
/* bpf_for(i, start, end) implements a for()-like looping construct that sets
* provided integer variable *i* to values starting from *start* through,
* but not including, *end*. It also proves to BPF verifier that *i* belongs
* to range [start, end), so this can be used for accessing arrays without
* extra checks.
*
* Note: *start* and *end* are assumed to be expressions with no side effects
* and whose values do not change throughout bpf_for() loop execution. They do
* not have to be statically known or constant, though.
*
* Note: similarly to bpf_for_each(), it relies on C99 feature of declaring
 for()
* loop bound variables and cleanup attribute, supported by GCC and Clang.
*/
#define bpf_for(i, start, end) for (        \
 /* initialize and define destructor */       \
 struct bpf_iter_num ___it __attribute__((aligned(8), /* enforce, just in case */ \
       cleanup(bpf_iter_num_destroy))),  \
```

```
 /* ___p pointer is necessary to call bpf_iter_num_new() *once* to init ___it */  \
       *___p __attribute__((unused)) = (     \
    bpf_iter_num_new(&___it, (start), (end)),   \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_num_destroy() when used from cleanup() attribute */   \
    (void)bpf_iter_num_destroy, (void *)0);    \
 ({           \
  /* iteration step */        \
  int *___t = bpf_iter_num_next(&___it);      \
  /* termination and bounds check */      \
  (___t && ((i) = *___t, (i) >= (start) && (i) < (end)));    \
 });           \
)
#endif /* bpf_for */

#ifndef bpf_repeat
/* bpf_repeat(N) performs N iterations without exposing
 iteration number
*
* Note: similarly to bpf_for_each(), it relies on C99 feature of declaring for()
* loop bound variables and cleanup attribute, supported by GCC and Clang.
*/
#define bpf_repeat(N) for (         \
 /* initialize and define destructor */       \
 struct bpf_iter_num ___it __attribute__((aligned(8), /* enforce, just in case */ \
       cleanup(bpf_iter_num_destroy))),  \
 /* ___p pointer is necessary to call bpf_iter_num_new() *once* to init ___it */  \
       *___p __attribute__((unused)) = (     \
    bpf_iter_num_new(&___it, 0, (N)),    \
 /* this is a workaround for Clang bug: it currently doesn't emit BTF */   \
 /* for bpf_iter_num_destroy() when used from cleanup() attribute */   \
    (void)bpf_iter_num_destroy, (void *)0);    \
 bpf_iter_num_next(&___it);        \
 /* nothing here  */         \
)
#endif /* bpf_repeat */

#endif
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

/*
* Libbpf legacy APIs (either discouraged or deprecated, as mentioned in [0])
*
*   [0] https://docs.google.com/document/d/1UyjTZuPFWiPFyKk1tV5an11_iaRuec6U-ZESZ54nNTY
*
* Copyright (C) 2021 Facebook
*/
#ifndef __LIBBPF_LEGACY_BPF_H
```

```
#define __LIBBPF_LEGACY_BPF_H

#include <linux/bpf.h>
#include <stdbool.h>
#include <stddef.h>
#include <stdint.h>
#include "libbpf_common.h"

#ifdef __cplusplus
extern "C" {
#endif

/* As of libbpf 1.0 libbpf_set_strict_mode() and enum libbpf_struct_mode have
* no effect. But they are left in libbpf_legacy.h so that applications that
* prepared for libbpf 1.0 before final release by using
* libbpf_set_strict_mode() still work with libbpf 1.0+ without any changes.
*/
enum libbpf_strict_mode {
 /* Turn on all supported strict features of libbpf to simulate libbpf
  * v1.0 behavior.
  * This will be the default behavior in libbpf v1.0.
  */
 LIBBPF_STRICT_ALL = 0xffffffff,

 /*
  * Disable
 any libbpf 1.0 behaviors. This is the default before libbpf
  * v1.0. It won't be supported anymore in v1.0, please update your
  * code so that it handles LIBBPF_STRICT_ALL mode before libbpf v1.0.
  */
 LIBBPF_STRICT_NONE = 0x00,
 /*
  * Return NULL pointers on error, not ERR_PTR(err).
  * Additionally, libbpf also always sets errno to corresponding Exx
  * (positive) error code.
  */
 LIBBPF_STRICT_CLEAN_PTRS = 0x01,
 /*
  * Return actual error codes from low-level APIs directly, not just -1.
  * Additionally, libbpf also always sets errno to corresponding Exx
  * (positive) error code.
  */
 LIBBPF_STRICT_DIRECT_ERRS = 0x02,
 /*
  * Enforce strict BPF program section (SEC()) names.
  * E.g., while prefiously SEC("xdp_whatever") or SEC("perf_event_blah") were
  * allowed, with LIBBPF_STRICT_SEC_PREFIX this will become
  * unrecognized by libbpf and would have to be just SEC("xdp") and
```

```
 * SEC("xdp") and SEC("perf_event").
 *
 * Note, in this mode the program pin path will be based
on the
 * function name instead of section name.
 *
 * Additionally, routines in the .text section are always considered
 * sub-programs. Legacy behavior allows for a single routine in .text
 * to be a program.
 */
LIBBPF_STRICT_SEC_NAME = 0x04,
/*
 * Disable the global 'bpf_objects_list'. Maintaining this list adds
 * a race condition to bpf_object__open() and bpf_object__close().
 * Clients can maintain it on their own if it is valuable for them.
 */
LIBBPF_STRICT_NO_OBJECT_LIST = 0x08,
/*
 * Automatically bump RLIMIT_MEMLOCK using setrlimit() before the
 * first BPF program or map creation operation. This is done only if
 * kernel is too old to support memcg-based memory accounting for BPF
 * subsystem. By default, RLIMIT_MEMLOCK limit is set to RLIM_INFINITY,
 * but it can be overriden with libbpf_set_memlock_rlim() API.
 * Note that libbpf_set_memlock_rlim() needs to be called before
 * the very first bpf_prog_load(), bpf_map_create() or bpf_object__load()

* operation.
 */
LIBBPF_STRICT_AUTO_RLIMIT_MEMLOCK = 0x10,
/*
 * Error out on any SEC("maps") map definition, which are deprecated
 * in favor of BTF-defined map definitions in SEC(".maps").
 */
LIBBPF_STRICT_MAP_DEFINITIONS = 0x20,

__LIBBPF_STRICT_LAST,
};

LIBBPF_API int libbpf_set_strict_mode(enum libbpf_strict_mode mode);

/**
* @brief **libbpf_get_error()** extracts the error code from the passed
* pointer
* @param ptr pointer returned from libbpf API function
* @return error code; or 0 if no error occured
*
* Note, as of libbpf 1.0 this function is not necessary and not recommended
* to be used. Libbpf doesn't return error code embedded into the pointer
```

```
* itself. Instead, NULL is returned on error and error code is passed through
* thread-local errno variable. **libbpf_get_error()** is just returning -errno
* value if it receives NULL, which is correct only if errno hasn't been
* modified between libbpf API call and corresponding **libbpf_get_error()**
* call.
 Prefer to check return for NULL and use errno directly.
*
* This API is left in libbpf 1.0 to allow applications that were 1.0-ready
* before final libbpf 1.0 without needing to change them.
*/
LIBBPF_API long libbpf_get_error(const void *ptr);

#define DECLARE_LIBBPF_OPTS LIBBPF_OPTS

/* "Discouraged" APIs which don't follow consistent libbpf naming patterns.
* They are normally a trivial aliases or wrappers for proper APIs and are
* left to minimize unnecessary disruption for users of libbpf. But they
* shouldn't be used going forward.
*/

struct bpf_program;
struct bpf_map;
struct btf;
struct btf_ext;

LIBBPF_API struct btf *libbpf_find_kernel_btf(void);

LIBBPF_API enum bpf_prog_type bpf_program__get_type(const struct bpf_program *prog);
LIBBPF_API enum bpf_attach_type bpf_program__get_expected_attach_type(const struct bpf_program *prog);
LIBBPF_API const char *bpf_map__get_pin_path(const struct bpf_map *map);
LIBBPF_API const void *btf__get_raw_data(const struct btf *btf,
 __u32 *size);
LIBBPF_API const void *btf_ext__get_raw_data(const struct btf_ext *btf_ext, __u32 *size);

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* __LIBBPF_LEGACY_BPF_H */
// Project Calico BPF dataplane programs.
// Copyright (c) 2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_COUNTERS_H__
#define __CALI_COUNTERS_H__

#define MAX_COUNTERS_SIZE 14
```

```
typedef __u64 counters_t[MAX_COUNTERS_SIZE];

struct counters_key {
 __u32 ifindex;
 __u32 hook;
};

#define COUNTERS_TC_INGRESS 0
#define COUNTERS_TC_EGRESS 1
#define COUNTERS_XDP  2

CALI_MAP(cali_counters, 2,
  BPF_MAP_TYPE_PERCPU_HASH,
  struct counters_key, counters_t, 20000,
  0)

static CALI_BPF_INLINE counters_t *counters_get(int ifindex)
{
 struct counters_key key = {
  .ifindex = ifindex,
 };

 if (CALI_F_XDP) {
  key.hook = COUNTERS_XDP;
 } else if (CALI_F_TO_HEP) {
  key.hook = COUNTERS_TC_EGRESS;
 } else if (CALI_F_FROM_HEP) {
  key.hook = COUNTERS_TC_INGRESS;
 } else if (CALI_F_TO_WEP) {
  key.hook = COUNTERS_TC_EGRESS;
 } else if (CALI_F_FROM_WEP) {
  key.hook = COUNTERS_TC_INGRESS;
 }

 void * val = cali_counters_lookup_elem(&key);

 if
 (!val) {
  /* If there was no entry created yet, create it. It is a hash
   * map so any entry must be created first!
   */
  counters_t ctrs = {};
  if (cali_counters_update_elem(&key, ctrs, BPF_ANY)) {
   return NULL;
  }

  val = cali_counters_lookup_elem(&key);
 }
```

```
 return val;
}

static CALI_BPF_INLINE void counter_inc(struct cali_tc_ctx *ctx, int type)
{
 if (ctx->counters) {
  ((__u64 *)((ctx)->counters))[type]++;
 }
}

static CALI_BPF_INLINE void deny_reason(struct cali_tc_ctx *ctx, int reason)
{
 ctx->fwd.reason = reason;
 counter_inc(ctx, reason);
}

#endif /* __CALI_COUNTERS_H__ */
```

009367099eb61a4fc2af44d4eb06b6b4de7de6db

```
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2021 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_NAT_TYPES_H__
#define __CALI_NAT_TYPES_H__

#include "bpf.h"

typedef enum calico_nat_lookup_result {
 NAT_LOOKUP_ALLOW,
 NAT_FE_LOOKUP_DROP,
 NAT_NO_BACKEND,
 NAT_EXCLUDE,
} nat_lookup_result;


struct calico_nat {
	ipv46_addr_t addr; // NBO
	__u16 port; // HBO
	__u8 protocol;
};

/* Map: NAT level one.  Dest IP, port and src IP -> ID and num backends.
* Modified the map from HASH to LPM_TRIE. This is to drop packets outside
* src IP range specified for Load Balancer
*/
struct __attribute__((__packed__)) calico_nat_key {
 __u32 prefixlen;
```

```
 ipv46_addr_t addr; // NBO
 __u16 port; // HBO
 __u8 protocol;
 ipv46_addr_t saddr;
 __u8 pad;
};

/* Prefix len = (dst_addr + port + protocol + src_addr) in bits. */
#define NAT_PREFIX_LEN_WITH_SRC_MATCH  (sizeof(struct calico_nat_key) - \
    sizeof(((struct
 calico_nat_key*)0)->prefixlen) - \
    sizeof(((struct calico_nat_key*)0)->pad))

#define NAT_PREFIX_LEN_WITH_SRC_MATCH_IN_BITS (NAT_PREFIX_LEN_WITH_SRC_MATCH * 8)

// This is used as a special ID along with count=0 to drop a packet at nat level1 lookup
#define NAT_FE_DROP_COUNT  0xffffffff

union calico_nat_lpm_key {
      struct bpf_lpm_trie_key lpm;
      struct calico_nat_key key;
};

struct calico_nat_value {
 __u32 id;
 __u32 count;
 __u32 local;
 __u32 affinity_timeo;
 __u32 flags;
};

#define NAT_FLG_EXTERNAL_LOCAL 0x1
#define NAT_FLG_INTERNAL_LOCAL 0x2
#define NAT_FLG_NAT_EXCLUDE 0x4

#ifdef IPVER6
CALI_MAP_NAMED(cali_v6_nat_fe, cali_nat_fe, 3,
#else
CALI_MAP_NAMED(cali_v4_nat_fe, cali_nat_fe, 3,
#endif
  BPF_MAP_TYPE_LPM_TRIE,
  union calico_nat_lpm_key, struct calico_nat_value,
  64*1024, BPF_F_NO_PREALLOC)


// Map: NAT level two.  ID and ordinal -> new dest and port.

struct calico_nat_secondary_key {
```

```
 __u32 id;
 __u32 ordinal;
};

struct calico_nat_dest {
 ipv46_addr_t
 addr;
 __u16 port;
 __u8 pad[2];
};

#ifdef IPVER6
CALI_MAP_NAMED(cali_v6_nat_be, cali_nat_be,,
#else
CALI_MAP_NAMED(cali_v4_nat_be, cali_nat_be,,
#endif
  BPF_MAP_TYPE_HASH,
  struct calico_nat_secondary_key, struct calico_nat_dest,
  256*1024, BPF_F_NO_PREALLOC)

struct calico_nat_affinity_key {
 struct calico_nat nat_key;
 ipv46_addr_t client_ip;
 __u32 padding;
};

struct calico_nat_affinity_val {
 struct calico_nat_dest nat_dest;
#ifdef IPVER6
 __u32 __pad;
#endif
 __u64 ts;
};


#ifdef IPVER6
CALI_MAP_NAMED(cali_v6_nat_aff, cali_nat_aff,,
#else
CALI_MAP_NAMED(cali_v4_nat_aff, cali_nat_aff,,
#endif
  BPF_MAP_TYPE_LRU_HASH,
  struct calico_nat_affinity_key, struct calico_nat_affinity_val,
  64*1024, 0)

struct vxlanhdr {
 __be32 flags;
 __be32 vni;
};
```

```
#endif /*  __CALI_NAT_TYPES_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

/*
* Generic non-thread safe hash map implementation.
*
* Copyright (c) 2019 Facebook
*/
#ifndef __LIBBPF_HASHMAP_H
#define __LIBBPF_HASHMAP_H

#include <stdbool.h>
#include <stddef.h>
#include <limits.h>

static inline size_t hash_bits(size_t h, int bits)
{
 /* shuffle bits and return requested number of upper bits */
 if (bits == 0)
  return 0;

#if (__SIZEOF_SIZE_T__ == __SIZEOF_LONG_LONG__)
 /* LP64 case */
 return (h * 11400714819323198485llu) >> (__SIZEOF_LONG_LONG__ * 8 - bits);
#elif (__SIZEOF_SIZE_T__ <= __SIZEOF_LONG__)
 return (h * 2654435769lu) >> (__SIZEOF_LONG__ * 8 - bits);
#else
# error "Unsupported size_t size"
#endif
}

/* generic C-string hashing function */
static inline size_t str_hash(const char *s)
{
 size_t h = 0;

 while (*s) {
  h = h * 31 + *s;
  s++;
 }
 return h;
}

typedef size_t (*hashmap_hash_fn)(long key, void *ctx);
typedef bool (*hashmap_equal_fn)(long key1, long key2, void *ctx);

/*
* Hashmap
```

```
 interface is polymorphic, keys and values could be either
* long-sized integers or pointers, this is achieved as follows:
* - interface functions that operate on keys and values are hidden
*   behind auxiliary macros, e.g. hashmap_insert <-> hashmap__insert;
* - these auxiliary macros cast the key and value parameters as
*   long or long *, so the user does not have to specify the casts explicitly;
* - for pointer parameters (e.g. old_key) the size of the pointed
*   type is verified by hashmap_cast_ptr using _Static_assert;
* - when iterating using hashmap__for_each_* forms
*   hasmap_entry->key should be used for integer keys and
*   hasmap_entry->pkey should be used for pointer keys,
*   same goes for values.
*/
struct hashmap_entry {
 union {
  long key;
  const void *pkey;
 };
 union {
  long value;
  void *pvalue;
 };
 struct hashmap_entry *next;
};

struct hashmap {
 hashmap_hash_fn hash_fn;
 hashmap_equal_fn equal_fn;
 void *ctx;

 struct hashmap_entry **buckets;
 size_t
 cap;
 size_t cap_bits;
 size_t sz;
};

void hashmap__init(struct hashmap *map, hashmap_hash_fn hash_fn,
     hashmap_equal_fn equal_fn, void *ctx);
struct hashmap *hashmap__new(hashmap_hash_fn hash_fn,
        hashmap_equal_fn equal_fn,
        void *ctx);
void hashmap__clear(struct hashmap *map);
void hashmap__free(struct hashmap *map);

size_t hashmap__size(const struct hashmap *map);
size_t hashmap__capacity(const struct hashmap *map);
```

```
/*
* Hashmap insertion strategy:
* - HASHMAP_ADD - only add key/value if key doesn't exist yet;
* - HASHMAP_SET - add key/value pair if key doesn't exist yet; otherwise,
*   update value;
* - HASHMAP_UPDATE - update value, if key already exists; otherwise, do
*   nothing and return -ENOENT;
* - HASHMAP_APPEND - always add key/value pair, even if key already exists.
*   This turns hashmap into a multimap by allowing multiple values to be
*   associated with the same key. Most useful read API for such hashmap is
*   hashmap__for_each_key_entry()
 iteration. If hashmap__find() is still
*   used, it will return last inserted key/value entry (first in a bucket
*   chain).
*/
enum hashmap_insert_strategy {
 HASHMAP_ADD,
 HASHMAP_SET,
 HASHMAP_UPDATE,
 HASHMAP_APPEND,
};

#define hashmap_cast_ptr(p) ({        \
 _Static_assert((__builtin_constant_p((p)) ? (p) == NULL : 0) ||   \
    sizeof(*(p)) == sizeof(long),    \
        #p " pointee should be a long-sized integer or a pointer"); \
 (long *)(p);        \
})

/*
* hashmap__insert() adds key/value entry w/ various semantics, depending on
* provided strategy value. If a given key/value pair replaced already
* existing key/value pair, both old key and old value will be returned
* through old_key and old_value to allow calling code do proper memory
* management.
*/
int hashmap_insert(struct hashmap *map, long key, long value,
     enum hashmap_insert_strategy strategy,
     long *old_key, long *old_value);

#define hashmap__insert(map, key, value, strategy,
 old_key, old_value) \
 hashmap_insert((map), (long)(key), (long)(value), (strategy),  \
         hashmap_cast_ptr(old_key),        \
         hashmap_cast_ptr(old_value))

#define hashmap__add(map, key, value) \
 hashmap__insert((map), (key), (value), HASHMAP_ADD, NULL, NULL)
```

```
#define hashmap__set(map, key, value, old_key, old_value) \
 hashmap__insert((map), (key), (value), HASHMAP_SET, (old_key), (old_value))

#define hashmap__update(map, key, value, old_key, old_value) \
 hashmap__insert((map), (key), (value), HASHMAP_UPDATE, (old_key), (old_value))

#define hashmap__append(map, key, value) \
 hashmap__insert((map), (key), (value), HASHMAP_APPEND, NULL, NULL)

bool hashmap_delete(struct hashmap *map, long key, long *old_key, long *old_value);

#define hashmap__delete(map, key, old_key, old_value)        \
 hashmap_delete((map), (long)(key),          \
        hashmap_cast_ptr(old_key),        \
        hashmap_cast_ptr(old_value))

bool hashmap_find(const struct hashmap *map,
 long key, long *value);

#define hashmap__find(map, key, value) \
 hashmap_find((map), (long)(key), hashmap_cast_ptr(value))

/*
* hashmap__for_each_entry - iterate over all entries in hashmap
* @map: hashmap to iterate
* @cur: struct hashmap_entry * used as a loop cursor
* @bkt: integer used as a bucket loop cursor
*/
#define hashmap__for_each_entry(map, cur, bkt)        \
 for (bkt = 0; bkt < map->cap; bkt++)        \
  for (cur = map->buckets[bkt]; cur; cur = cur->next)

/*
* hashmap__for_each_entry_safe - iterate over all entries in hashmap, safe
* against removals
* @map: hashmap to iterate
* @cur: struct hashmap_entry * used as a loop cursor
* @tmp: struct hashmap_entry * used as a temporary next cursor storage
* @bkt: integer used as a bucket loop cursor
*/
#define hashmap__for_each_entry_safe(map, cur, tmp, bkt)      \
 for (bkt = 0; bkt < map->cap; bkt++)        \
  for (cur = map->buckets[bkt];        \
       cur && ({tmp = cur->next; true; });      \
       cur
 = tmp)
```

```
/*
* hashmap__for_each_key_entry - iterate over entries associated with given key
* @map: hashmap to iterate
* @cur: struct hashmap_entry * used as a loop cursor
* @key: key to iterate entries for
*/
#define hashmap__for_each_key_entry(map, cur, _key)       \
 for (cur = map->buckets          \
       ? map->buckets[hash_bits(map->hash_fn((_key), map->ctx), map->cap_bits)] \
       : NULL;          \
      cur;          \
      cur = cur->next)          \
  if (map->equal_fn(cur->key, (_key), map->ctx))

#define hashmap__for_each_key_entry_safe(map, cur, tmp, _key)      \
 for (cur = map->buckets          \
       ? map->buckets[hash_bits(map->hash_fn((_key), map->ctx), map->cap_bits)] \
       : NULL;          \
      cur && ({ tmp = cur->next; true; });       \
      cur = tmp)          \
  if (map->equal_fn(cur->key, (_key), map->ctx))

#endif /* __LIBBPF_HASHMAP_H */
LIBBPF_0.0.1 {
 global:
  bpf_btf_get_fd_by_id;
  bpf_map__btf_key_type_id;
  bpf_map__btf_value_type_id;
  bpf_map__fd;
  bpf_map__name;
  bpf_map__pin;
  bpf_map__reuse_fd;
  bpf_map__set_ifindex;
  bpf_map__set_inner_map_fd;
  bpf_map__unpin;
  bpf_map_delete_elem;
  bpf_map_get_fd_by_id;
  bpf_map_get_next_id;
  bpf_map_get_next_key;
  bpf_map_lookup_and_delete_elem;
  bpf_map_lookup_elem;
  bpf_map_update_elem;
  bpf_obj_get;
  bpf_obj_get_info_by_fd;
  bpf_obj_pin;
  bpf_object__btf_fd;
  bpf_object__close;
  bpf_object__find_map_by_name;
```

```
  bpf_object__kversion;
  bpf_object__load;
  bpf_object__name;
  bpf_object__open;
  bpf_object__pin;
  bpf_object__pin_maps;
  bpf_object__pin_programs;
  bpf_object__unpin_maps;
  bpf_object__unpin_programs;
  bpf_prog_attach;
  bpf_prog_detach;
  bpf_prog_detach2;
  bpf_prog_get_fd_by_id;
  bpf_prog_get_next_id;
  bpf_prog_query;
  bpf_program__fd;
  bpf_program__pin;
  bpf_program__set_expected_attach_type;
  bpf_program__set_ifindex;
  bpf_program__set_type;
  bpf_program__unload;
  bpf_program__unpin;
  bpf_prog_linfo__free;
  bpf_prog_linfo__new;
  bpf_prog_linfo__lfind_addr_func;
  bpf_prog_linfo__lfind;
  bpf_raw_tracepoint_open;
  bpf_task_fd_query;
  btf__fd;
  btf__find_by_name;
  btf__free;
  btf__name_by_offset;
  btf__new;
  btf__resolve_size;
  btf__resolve_type;
  btf__type_by_id;
  libbpf_attach_type_by_name;
  libbpf_get_error;
  libbpf_prog_type_by_name;
  libbpf_set_print;
  libbpf_strerror;
 local:
  *;
};

LIBBPF_0.0.2
 {
 global:
```

```
  bpf_map_lookup_elem_flags;
  bpf_object__btf;
  bpf_object__find_map_fd_by_name;
  btf__get_raw_data;
  btf_ext__free;
  btf_ext__get_raw_data;
  btf_ext__new;
} LIBBPF_0.0.1;

LIBBPF_0.0.3 {
 global:
  bpf_map__is_internal;
  bpf_map_freeze;
} LIBBPF_0.0.2;

LIBBPF_0.0.4 {
 global:
  bpf_link__destroy;
  bpf_program__attach_kprobe;
  bpf_program__attach_perf_event;
  bpf_program__attach_raw_tracepoint;
  bpf_program__attach_tracepoint;
  bpf_program__attach_uprobe;
  btf_dump__dump_type;
  btf_dump__free;
  btf__parse_elf;
  libbpf_num_possible_cpus;
  perf_buffer__free;
  perf_buffer__poll;
}
 LIBBPF_0.0.3;

LIBBPF_0.0.5 {
 global:
  bpf_btf_get_next_id;
} LIBBPF_0.0.4;

LIBBPF_0.0.6 {
 global:
  bpf_map__get_pin_path;
  bpf_map__is_pinned;
  bpf_map__set_pin_path;
  bpf_object__open_file;
  bpf_object__open_mem;
  bpf_program__attach_trace;
  bpf_program__get_expected_attach_type;
  bpf_program__get_type;
  btf__find_by_name_kind;
```

```
  libbpf_find_vmlinux_btf_id;
} LIBBPF_0.0.5;

LIBBPF_0.0.7 {
 global:
  btf_dump__emit_type_decl;
  bpf_link__disconnect;
  bpf_map__attach_struct_ops;
  bpf_map_delete_batch;
  bpf_map_lookup_and_delete_batch;
  bpf_map_lookup_batch;
  bpf_map_update_batch;
  bpf_object__find_program_by_name;
  bpf_object__attach_skeleton;
  bpf_object__destroy_skeleton;
  bpf_object__detach_skeleton;
  bpf_object__load_skeleton;
  bpf_object__open_skeleton;
  bpf_program__attach;
  bpf_program__name;
  btf__align_of;
  libbpf_find_kernel_btf;
}
 LIBBPF_0.0.6;

LIBBPF_0.0.8 {
 global:
  bpf_link__fd;
  bpf_link__open;
  bpf_link__pin;
  bpf_link__pin_path;
  bpf_link__unpin;
  bpf_link__update_program;
  bpf_link_create;
  bpf_link_update;
  bpf_map__set_initial_value;
  bpf_prog_attach_opts;
  bpf_program__attach_cgroup;
  bpf_program__attach_lsm;
  bpf_program__set_attach_target;
} LIBBPF_0.0.7;

LIBBPF_0.0.9 {
 global:
  bpf_enable_stats;
  bpf_iter_create;
  bpf_link_get_fd_by_id;
  bpf_link_get_next_id;
```

```
  bpf_program__attach_iter;
  bpf_program__attach_netns;
  perf_buffer__consume;
  ring_buffer__add;
  ring_buffer__consume;
  ring_buffer__free;
  ring_buffer__new;
  ring_buffer__poll;
} LIBBPF_0.0.8;

LIBBPF_0.1.0 {
 global:
  bpf_link__detach;
  bpf_link_detach;
  bpf_map__ifindex;
  bpf_map__key_size;
  bpf_map__map_flags;
  bpf_map__max_entries;
  bpf_map__numa_node;
  bpf_map__set_key_size;
  bpf_map__set_map_flags;
  bpf_map__set_max_entries;
  bpf_map__set_numa_node;
  bpf_map__set_type;
  bpf_map__set_value_size;
  bpf_map__type;
  bpf_map__value_size;
  bpf_program__attach_xdp;
  bpf_program__autoload;
  bpf_program__set_autoload;
  btf__parse;
  btf__parse_raw;
  btf__pointer_size;
  btf__set_fd;
  btf__set_pointer_size;
}
 LIBBPF_0.0.9;

LIBBPF_0.2.0 {
 global:
  bpf_prog_bind_map;
  bpf_prog_test_run_opts;
  bpf_program__attach_freplace;
  bpf_program__section_name;
  btf__add_array;
  btf__add_const;
  btf__add_enum;
  btf__add_enum_value;
```

```
  btf__add_datasec;
  btf__add_datasec_var_info;
  btf__add_field;
  btf__add_func;
  btf__add_func_param;
  btf__add_func_proto;
  btf__add_fwd;
  btf__add_int;
  btf__add_ptr;
  btf__add_restrict;
  btf__add_str;
  btf__add_struct;
  btf__add_typedef;
  btf__add_union;
  btf__add_var;
  btf__add_volatile;
  btf__endianness;
  btf__find_str;
  btf__new_empty;
  btf__set_endianness;
  btf__str_by_offset;
  perf_buffer__buffer_cnt;
  perf_buffer__buffer_fd;
  perf_buffer__epoll_fd;
  perf_buffer__consume_buffer;
} LIBBPF_0.1.0;

LIBBPF_0.3.0 {
 global:
  btf__base_btf;
  btf__parse_elf_split;
  btf__parse_raw_split;
  btf__parse_split;
  btf__new_empty_split;
  ring_buffer__epoll_fd;
 }
 LIBBPF_0.2.0;

LIBBPF_0.4.0 {
 global:
  btf__add_float;
  btf__add_type;
  bpf_linker__add_file;
  bpf_linker__finalize;
  bpf_linker__free;
  bpf_linker__new;
  bpf_map__inner_map;
  bpf_object__set_kversion;
```

```
  bpf_tc_attach;
  bpf_tc_detach;
  bpf_tc_hook_create;
  bpf_tc_hook_destroy;
  bpf_tc_query;
} LIBBPF_0.3.0;

LIBBPF_0.5.0 {
 global:
  bpf_map__initial_value;
  bpf_map__pin_path;
  bpf_map_lookup_and_delete_elem_flags;
  bpf_program__attach_kprobe_opts;
  bpf_program__attach_perf_event_opts;
  bpf_program__attach_tracepoint_opts;
  bpf_program__attach_uprobe_opts;
  bpf_object__gen_loader;
  btf__load_from_kernel_by_id;
  btf__load_from_kernel_by_id_split;
  btf__load_into_kernel;
  btf__load_module_btf;
  btf__load_vmlinux_btf;
  btf_dump__dump_type_data;
  libbpf_set_strict_mode;
} LIBBPF_0.4.0;

LIBBPF_0.6.0 {
 global:
  bpf_map__map_extra;
  bpf_map__set_map_extra;
  bpf_map_create;
  bpf_object__next_map;
  bpf_object__next_program;
  bpf_object__prev_map;
  bpf_object__prev_program;
  bpf_prog_load;
  bpf_program__flags;
  bpf_program__insn_cnt;
  bpf_program__insns;
  bpf_program__set_flags;
  btf__add_btf;
  btf__add_decl_tag;
  btf__add_type_tag;
  btf__dedup;
  btf__raw_data;
  btf__type_cnt;
  btf_dump__new;
  libbpf_major_version;
```

```
  libbpf_minor_version;
  libbpf_version_string;
  perf_buffer__new;
  perf_buffer__new_raw;
 }
 LIBBPF_0.5.0;

LIBBPF_0.7.0 {
 global:
  bpf_btf_load;
  bpf_program__expected_attach_type;
  bpf_program__log_buf;
  bpf_program__log_level;
  bpf_program__set_log_buf;
  bpf_program__set_log_level;
  bpf_program__type;
  bpf_xdp_attach;
  bpf_xdp_detach;
  bpf_xdp_query;
  bpf_xdp_query_id;
  libbpf_probe_bpf_helper;
  libbpf_probe_bpf_map_type;
  libbpf_probe_bpf_prog_type;
  libbpf_set_memlock_rlim;
} LIBBPF_0.6.0;

LIBBPF_0.8.0 {
 global:
  bpf_map__autocreate;
  bpf_map__get_next_key;
  bpf_map__delete_elem;
  bpf_map__lookup_and_delete_elem;
  bpf_map__lookup_elem;
  bpf_map__set_autocreate;
  bpf_map__update_elem;
  bpf_map_delete_elem_flags;
  bpf_object__destroy_subskeleton;
  bpf_object__open_subskeleton;
  bpf_program__attach_kprobe_multi_opts;
  bpf_program__attach_trace_opts;
  bpf_program__attach_usdt;
  bpf_program__set_insns;
  libbpf_register_prog_handler;
  libbpf_unregister_prog_handler;
 }
 LIBBPF_0.7.0;

LIBBPF_1.0.0 {
```

```
 global:
  bpf_obj_get_opts;
  bpf_prog_query_opts;
  bpf_program__attach_ksyscall;
  bpf_program__autoattach;
  bpf_program__set_autoattach;
  btf__add_enum64;
  btf__add_enum64_value;
  libbpf_bpf_attach_type_str;
  libbpf_bpf_link_type_str;
  libbpf_bpf_map_type_str;
  libbpf_bpf_prog_type_str;
  perf_buffer__buffer;
} LIBBPF_0.8.0;

LIBBPF_1.1.0 {
 global:
  bpf_btf_get_fd_by_id_opts;
  bpf_link_get_fd_by_id_opts;
  bpf_map_get_fd_by_id_opts;
  bpf_prog_get_fd_by_id_opts;
  user_ring_buffer__discard;
  user_ring_buffer__free;
  user_ring_buffer__new;
  user_ring_buffer__reserve;
  user_ring_buffer__reserve_blocking;
  user_ring_buffer__submit;
}
 LIBBPF_1.0.0;

LIBBPF_1.2.0 {
 global:
  bpf_btf_get_info_by_fd;
  bpf_link__update_map;
  bpf_link_get_info_by_fd;
  bpf_map_get_info_by_fd;
  bpf_prog_get_info_by_fd;
} LIBBPF_1.1.0;

LIBBPF_1.3.0 {
 global:
  bpf_obj_pin_opts;
  bpf_object__unpin;
  bpf_prog_detach_opts;
  bpf_program__attach_netfilter;
  bpf_program__attach_netkit;
  bpf_program__attach_tcx;
  bpf_program__attach_uprobe_multi;
```

```
  ring__avail_data_size;
  ring__consume;
  ring__consumer_pos;
  ring__map_fd;
  ring__producer_pos;
  ring__size;
  ring_buffer__ring;
} LIBBPF_1.2.0;

LIBBPF_1.4.0 {
 global:
  bpf_program__attach_raw_tracepoint_opts;
  bpf_raw_tracepoint_open_opts;
  bpf_token_create;
  btf__new_split;
  btf_ext__raw_data;
} LIBBPF_1.3.0;

LIBBPF_1.5.0 {
 global:
  bpf_program__attach_sockmap;
  ring__consume_n;
  ring_buffer__consume_n;
} LIBBPF_1.4.0;
```

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==========

```
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
#ifndef _UAPI__LINUX_NETLINK_H
#define _UAPI__LINUX_NETLINK_H

#include <linux/kernel.h>
#include <linux/socket.h> /* for __kernel_sa_family_t */
#include <linux/types.h>
```

```
#define NETLINK_ROUTE  0 /* Routing/device hook    */
#define NETLINK_UNUSED  1 /* Unused number    */
#define NETLINK_USERSOCK 2 /* Reserved for user mode socket protocols  */
#define NETLINK_FIREWALL 3 /* Unused number, formerly ip_queue  */
#define NETLINK_SOCK_DIAG 4 /* socket monitoring    */
#define NETLINK_NFLOG  5 /* netfilter/iptables ULOG */
#define NETLINK_XFRM  6 /* ipsec */
#define NETLINK_SELINUX  7 /* SELinux event notifications */
#define NETLINK_ISCSI  8 /* Open-iSCSI */
#define NETLINK_AUDIT  9 /* auditing */
#define NETLINK_FIB_LOOKUP 10
#define NETLINK_CONNECTOR 11
#define NETLINK_NETFILTER 12 /* netfilter subsystem */
#define NETLINK_IP6_FW  13
#define NETLINK_DNRTMSG  14 /* DECnet routing messages */
#define NETLINK_KOBJECT_UEVENT 15 /*
 Kernel messages to userspace */
#define NETLINK_GENERIC  16
/* leave room for NETLINK_DM (DM Events) */
#define NETLINK_SCSITRANSPORT 18 /* SCSI Transports */
#define NETLINK_ECRYPTFS 19
#define NETLINK_RDMA  20
#define NETLINK_CRYPTO  21 /* Crypto layer */
#define NETLINK_SMC  22 /* SMC monitoring */

#define NETLINK_INET_DIAG NETLINK_SOCK_DIAG

#define MAX_LINKS 32

struct sockaddr_nl {
 __kernel_sa_family_t nl_family; /* AF_NETLINK */
 unsigned short nl_pad;  /* zero  */
 __u32  nl_pid;  /* port ID */
       __u32  nl_groups; /* multicast groups mask */
};

struct nlmsghdr {
 __u32  nlmsg_len; /* Length of message including header */
 __u16  nlmsg_type; /* Message content */
 __u16  nlmsg_flags; /* Additional flags */
 __u32  nlmsg_seq; /* Sequence number */
 __u32  nlmsg_pid; /* Sending process port ID */
};

/* Flags values */

#define NLM_F_REQUEST  0x01 /* It is request message.  */
```

```
#define NLM_F_MULTI  0x02 /* Multipart message, terminated by NLMSG_DONE */
#define NLM_F_ACK  0x04 /*
 Reply with ack, with zero or error code */
#define NLM_F_ECHO  0x08 /* Echo this request   */
#define NLM_F_DUMP_INTR  0x10 /* Dump was inconsistent due to sequence change */
#define NLM_F_DUMP_FILTERED 0x20 /* Dump was filtered as requested */

/* Modifiers to GET request */
#define NLM_F_ROOT 0x100 /* specify tree root */
#define NLM_F_MATCH 0x200 /* return all matching */
#define NLM_F_ATOMIC 0x400 /* atomic GET  */
#define NLM_F_DUMP (NLM_F_ROOT|NLM_F_MATCH)

/* Modifiers to NEW request */
#define NLM_F_REPLACE 0x100 /* Override existing  */
#define NLM_F_EXCL 0x200 /* Do not touch, if it exists */
#define NLM_F_CREATE 0x400 /* Create, if it does not exist */
#define NLM_F_APPEND 0x800 /* Add to end of list  */

/* Modifiers to DELETE request */
#define NLM_F_NONREC 0x100 /* Do not delete recursively */

/* Flags for ACK message */
#define NLM_F_CAPPED 0x100 /* request was capped */
#define NLM_F_ACK_TLVS 0x200 /* extended ACK TVLs were included */

/*
  4.4BSD ADD  NLM_F_CREATE|NLM_F_EXCL
   4.4BSD CHANGE NLM_F_REPLACE

  True CHANGE  NLM_F_CREATE|NLM_F_REPLACE
  Append  NLM_F_CREATE
  Check  NLM_F_EXCL
*/

#define NLMSG_ALIGNTO 4U
#define NLMSG_ALIGN(len) ( ((len)+NLMSG_ALIGNTO-1) & ~(NLMSG_ALIGNTO-1) )
#define NLMSG_HDRLEN  ((int) NLMSG_ALIGN(sizeof(struct nlmsghdr)))
#define NLMSG_LENGTH(len) ((len) + NLMSG_HDRLEN)
#define NLMSG_SPACE(len) NLMSG_ALIGN(NLMSG_LENGTH(len))
#define NLMSG_DATA(nlh)  ((void*)(((char*)nlh) + NLMSG_LENGTH(0)))
#define NLMSG_NEXT(nlh,len)  ((len) -= NLMSG_ALIGN((nlh)->nlmsg_len), \
     (struct nlmsghdr*)(((char*)(nlh)) + NLMSG_ALIGN((nlh)->nlmsg_len)))
#define NLMSG_OK(nlh,len) ((len) >= (int)sizeof(struct nlmsghdr) && \
     (nlh)->nlmsg_len >= sizeof(struct nlmsghdr) && \
     (nlh)->nlmsg_len <= (len))
#define NLMSG_PAYLOAD(nlh,len) ((nlh)->nlmsg_len - NLMSG_SPACE((len)))
```

```
#define NLMSG_NOOP  0x1 /* Nothing.  */
#define NLMSG_ERROR  0x2 /* Error  */
#define NLMSG_DONE  0x3 /* End of a dump */
#define NLMSG_OVERRUN  0x4 /*
 Data lost  */

#define NLMSG_MIN_TYPE  0x10 /* < 0x10: reserved control messages */

struct nlmsgerr {
 int  error;
 struct nlmsghdr msg;
 /*
  * followed by the message contents unless NETLINK_CAP_ACK was set
  * or the ACK indicates success (error == 0)
  * message length is aligned with NLMSG_ALIGN()
  */
 /*
  * followed by TLVs defined in enum nlmsgerr_attrs
  * if NETLINK_EXT_ACK was set
  */
};

/**
* enum nlmsgerr_attrs - nlmsgerr attributes
* @NLMSGERR_ATTR_UNUSED: unused
* @NLMSGERR_ATTR_MSG: error message string (string)
* @NLMSGERR_ATTR_OFFS: offset of the invalid attribute in the original
*  message, counting from the beginning of the header (u32)
* @NLMSGERR_ATTR_COOKIE: arbitrary subsystem specific cookie to
* be used - in the success case - to identify a created
* object or operation or similar (binary)
* @__NLMSGERR_ATTR_MAX: number of attributes
* @NLMSGERR_ATTR_MAX: highest attribute number
*/
enum nlmsgerr_attrs {
 NLMSGERR_ATTR_UNUSED,
 NLMSGERR_ATTR_MSG,
 NLMSGERR_ATTR_OFFS,
 NLMSGERR_ATTR_COOKIE,

 __NLMSGERR_ATTR_MAX,
 NLMSGERR_ATTR_MAX
 = __NLMSGERR_ATTR_MAX - 1
};

#define NETLINK_ADD_MEMBERSHIP  1
#define NETLINK_DROP_MEMBERSHIP  2
#define NETLINK_PKTINFO   3
```

```
#define NETLINK_BROADCAST_ERROR  4
#define NETLINK_NO_ENOBUFS  5
#ifndef __KERNEL__
#define NETLINK_RX_RING   6
#define NETLINK_TX_RING   7
#endif
#define NETLINK_LISTEN_ALL_NSID  8
#define NETLINK_LIST_MEMBERSHIPS 9
#define NETLINK_CAP_ACK   10
#define NETLINK_EXT_ACK   11
#define NETLINK_GET_STRICT_CHK  12

struct nl_pktinfo {
 __u32 group;
};

struct nl_mmap_req {
 unsigned int nm_block_size;
 unsigned int nm_block_nr;
 unsigned int nm_frame_size;
 unsigned int nm_frame_nr;
};

struct nl_mmap_hdr {
 unsigned int nm_status;
 unsigned int nm_len;
 __u32  nm_group;
 /* credentials */
 __u32  nm_pid;
 __u32  nm_uid;
 __u32  nm_gid;
};

#ifndef __KERNEL__
enum nl_mmap_status {
 NL_MMAP_STATUS_UNUSED,
 NL_MMAP_STATUS_RESERVED,
 NL_MMAP_STATUS_VALID,
 NL_MMAP_STATUS_COPY,
 NL_MMAP_STATUS_SKIP,
};

#define
 NL_MMAP_MSG_ALIGNMENT  NLMSG_ALIGNTO
#define NL_MMAP_MSG_ALIGN(sz)  __ALIGN_KERNEL(sz, NL_MMAP_MSG_ALIGNMENT)
#define NL_MMAP_HDRLEN   NL_MMAP_MSG_ALIGN(sizeof(struct nl_mmap_hdr))
#endif
```

```
#define NET_MAJOR 36  /* Major 36 is reserved for networking       */

enum {
 NETLINK_UNCONNECTED = 0,
 NETLINK_CONNECTED,
};

/*
*  <------- NLA_HDRLEN ------> <-- NLA_ALIGN(payload)-->
* +----------------------+- - -+- - - - - - - - - - -+- - -+
* |        Header        | Pad |     Payload       | Pad |
* |   (struct nlattr)    | ing |                   | ing |
* +----------------------+- - -+- - - - - - - - - - -+- - -+
*  <--------------- nlattr->nla_len --------------->
*/

struct nlattr {
 __u16           nla_len;
 __u16           nla_type;
};

/*
* nla_type (16 bits)
* +---+---+-------------------------------+
* | N | O | Attribute Type                |
* +---+---+-------------------------------+
* N := Carries nested attributes
* O := Payload stored
 in network byte order
*
* Note: The N and O flag are mutually exclusive.
*/
#define NLA_F_NESTED  (1 << 15)
#define NLA_F_NET_BYTEORDER (1 << 14)
#define NLA_TYPE_MASK  ~(NLA_F_NESTED | NLA_F_NET_BYTEORDER)

#define NLA_ALIGNTO  4
#define NLA_ALIGN(len)  (((len) + NLA_ALIGNTO - 1) & ~(NLA_ALIGNTO - 1))
#define NLA_HDRLEN  ((int) NLA_ALIGN(sizeof(struct nlattr)))

/* Generic 32 bitflags attribute content sent to the kernel.
*
* The value is a bitmap that defines the values being set
* The selector is a bitmask that defines which value is legit
*
* Examples:
*  value = 0x0, and selector = 0x1
*  implies we are selecting bit 1 and we want to set its value to 0.
```

```
*
*  value = 0x2, and selector = 0x2
*  implies we are selecting bit 2 and we want to set its value to 1.
*
*/
struct nla_bitfield32 {
 __u32 value;
 __u32 selector;
};

#endif /* _UAPI__LINUX_NETLINK_H */
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#ifndef __CALI_IP_ADDR_H__
#define __CALI_IP_ADDR_H__

typedef struct {
 __be32 a;
 __be32 b;
 __be32 c;
 __be32 d;
} ipv6_addr_t;

typedef __be32 ipv4_addr_t;

#ifdef IPVER6

#include <linux/in6.h>

static CALI_BPF_INLINE bool ipv6_addr_t_eq(ipv6_addr_t x, ipv6_addr_t y)
{
 return x.a == y.a && x.b == y.b && x.c == y.c && x.d == y.d;
}

static CALI_BPF_INLINE int ipv6_addr_t_cmp(ipv6_addr_t *x, ipv6_addr_t *y)
{
 if (x->a < y->a) {
  return -1;
 } else if (x->a == y->a) {
  if (x->b < y->b) {
   return -1;
  } else if (x->b == y->b) {
   if (x->c < y->c) {
    return -1;
   } else if (x->c == y->c) {
    if (x->d < y->d) {
```

```
    return -1;
   } else if (x->d == y->d) {
    return 0;
   }
  }
 }
}

return 1;
}

#define ip_void(ip) ((ip).a == 0 && (ip).b == 0 && (ip).c == 0 && (ip).d == 0)
#define ip_link_local(ip) ((bpf_htonl((ip).a)
 & (0xffc00000)) == 0xfe800000)
#define VOID_IP  ({ipv6_addr_t x = {}; x;})
#define ip_set_void(ip) do { \
 (ip).a = 0;  \
 (ip).b = 0;  \
 (ip).c = 0;  \
 (ip).d = 0;  \
} while(0)
#define NP_SPECIAL_IP ({ipv6_addr_t x = { 0xffffffff, 0xffffffff, 0xffffffff, 0xffffffff }; x;})
#define ip_equal(a, b) ipv6_addr_t_eq(a, b)
#define ip_lt(a, b) (ipv6_addr_t_cmp(a, b) < 0)

static CALI_BPF_INLINE void ipv6hdr_ip_to_ipv6_addr_t(ipv6_addr_t *us, struct in6_addr *lnx)
{
 us->a = lnx->in6_u.u6_addr32[0];
 us->b = lnx->in6_u.u6_addr32[1];
 us->c = lnx->in6_u.u6_addr32[2];
 us->d = lnx->in6_u.u6_addr32[3];
}

static CALI_BPF_INLINE void ipv6_addr_t_to_ipv6hdr_ip(struct in6_addr *lnx, ipv6_addr_t *us)
{
 lnx->in6_u.u6_addr32[0] = us->a;
 lnx->in6_u.u6_addr32[1] = us->b;
 lnx->in6_u.u6_addr32[2] = us->c;
 lnx->in6_u.u6_addr32[3] = us->d;
}

static CALI_BPF_INLINE void ipv6hdr_ip_to_be32_4_ip(__be32 *bpf, struct in6_addr *lnx)
{
 bpf[0] = lnx->in6_u.u6_addr32[0];
 bpf[1] = lnx->in6_u.u6_addr32[1];
 bpf[2]
 = lnx->in6_u.u6_addr32[2];
 bpf[3] = lnx->in6_u.u6_addr32[3];
```

```
}

static CALI_BPF_INLINE void ipv6_addr_t_to_be32_4_ip(__be32 *bpf, ipv6_addr_t *us)
{
 bpf[0] = us->a;
 bpf[1] = us->b;
 bpf[2] = us->c;
 bpf[3] = us->d;
}

static CALI_BPF_INLINE void be32_4_ip_to_ipv6_addr_t(ipv6_addr_t *us, __be32 *bpf)
{
 us->a = bpf[0];
 us->b = bpf[1];
 us->c = bpf[2];
 us->d = bpf[3];
}

typedef ipv6_addr_t ipv46_addr_t;

#define DECLARE_IP_ADDR(name) ipv6_addr_t name

#else /* ipv4 */

#define ip_void(ip) ((ip) == 0)
#define VOID_IP  0
#define ip_set_void(ip) ((ip) = 0)
#define NP_SPECIAL_IP 0xffffffff
#define ip_equal(a, b) ((a) == (b))
#define ip_lt(a, b) (*(a) < *(b))

typedef ipv4_addr_t ipv46_addr_t;

#define DECLARE_IP_ADDR(name) union {     \
     ipv4_addr_t name;  \
     ipv6_addr_t __pad ## name; \
    }
#endif

#endif /* __CALI_IP_ADDR_H__ */
```

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#ifndef __CALI_RULE_COUNTERS_H__
#define __CALI_RULE_COUNTERS_H__

#include "types.h"

CALI_MAP(cali_rule_ctrs, 2,
  BPF_MAP_TYPE_PERCPU_HASH,
  __u64, __u64, 10000, 0)

static CALI_BPF_INLINE void update_rule_counters(struct cali_tc_ctx *ctx) {
 int ret = 0;
 __u64 value = 1;
 __u64 *val = NULL;
 for (int i = 0; i < MAX_RULE_IDS; i++) {
  if (i >= ctx->state->rules_hit) {
   break;
  }
  __u64 ruleId = ctx->state->rule_ids[i];
  val = cali_rule_ctrs_lookup_elem(&ruleId);
  if (val) {
```

```
   *val = *val + 1;
  } else {
   ret = cali_rule_ctrs_update_elem(&ruleId, &value, 0);
   if (ret != 0) {
    CALI_DEBUG("error creating rule counter map entry 0x%x\n", ruleId);
   }
  }
 }
}

#endif /* __CALI_COUNTERS_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

#ifndef __LINUX_TYPES_H
#define __LINUX_TYPES_H

#include <stdbool.h>
#include <stddef.h>
#include <stdint.h>

#include <linux/stddef.h>

#include <asm/types.h>
#include <asm/posix_types.h>

#define __bitwise__
#define __bitwise __bitwise__

typedef __u16 __bitwise __le16;
typedef __u16 __bitwise __be16;
typedef __u32 __bitwise __le32;
typedef __u32 __bitwise __be32;
typedef __u64 __bitwise __le64;
typedef __u64 __bitwise __be64;

#ifndef __aligned_u64
# define __aligned_u64 __u64 __attribute__((aligned(8)))
#endif

struct list_head {
 struct list_head *next, *prev;
};

#endif
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __BPF_ENDIAN__
#define __BPF_ENDIAN__
```

```
/*
* Isolate byte #n and put it into byte #m, for __u##b type.
* E.g., moving byte #6 (nnnnnnnn) into byte #1 (mmmmmmmm) for __u64:
* 1) xxxxxxxx nnnnnnnn xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx mmmmmmmm xxxxxxxx
* 2) nnnnnnnn xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx mmmmmmmm xxxxxxxx 00000000
* 3) 00000000 00000000 00000000 00000000 00000000 00000000 00000000 nnnnnnnn
* 4) 00000000 00000000 00000000 00000000 00000000 00000000 nnnnnnnn 00000000
*/
#define ___bpf_mvb(x, b, n, m) ((__u##b)(x) << (b-(n+1)*8) >> (b-8) << (m*8))

#define ___bpf_swab16(x) ((__u16)(   \
    ___bpf_mvb(x, 16, 0, 1) | \
    ___bpf_mvb(x, 16, 1, 0)))

#define ___bpf_swab32(x) ((__u32)(   \
    ___bpf_mvb(x, 32, 0, 3) | \
    ___bpf_mvb(x, 32, 1, 2) | \
    ___bpf_mvb(x, 32, 2, 1) | \
    ___bpf_mvb(x, 32, 3, 0)))

#define ___bpf_swab64(x) ((__u64)(   \
    ___bpf_mvb(x, 64, 0, 7) | \
    ___bpf_mvb(x, 64,
 1, 6) | \
    ___bpf_mvb(x, 64, 2, 5) | \
    ___bpf_mvb(x, 64, 3, 4) | \
    ___bpf_mvb(x, 64, 4, 3) | \
    ___bpf_mvb(x, 64, 5, 2) | \
    ___bpf_mvb(x, 64, 6, 1) | \
    ___bpf_mvb(x, 64, 7, 0)))

/* LLVM's BPF target selects the endianness of the CPU
* it compiles on, or the user specifies (bpfel/bpfeb),
* respectively. The used __BYTE_ORDER__ is defined by
* the compiler, we cannot rely on __BYTE_ORDER from
* libc headers, since it doesn't reflect the actual
* requested byte order.
*
* Note, LLVM's BPF target has different __builtin_bswapX()
* semantics. It does map to BPF_ALU | BPF_END | BPF_TO_BE
* in bpfel and bpfeb case, which means below, that we map
* to cpu_to_be16(). We could use it unconditionally in BPF
* case, but better not rely on it, so that this header here
* can be used from application and BPF program side, which
* use different targets.
*/
#if __BYTE_ORDER__ == __ORDER_LITTLE_ENDIAN__
# define __bpf_ntohs(x)   __builtin_bswap16(x)
```

```
# define
 __bpf_htons(x)   __builtin_bswap16(x)
# define __bpf_constant_ntohs(x) ___bpf_swab16(x)
# define __bpf_constant_htons(x) ___bpf_swab16(x)
# define __bpf_ntohl(x)   __builtin_bswap32(x)
# define __bpf_htonl(x)   __builtin_bswap32(x)
# define __bpf_constant_ntohl(x) ___bpf_swab32(x)
# define __bpf_constant_htonl(x) ___bpf_swab32(x)
# define __bpf_be64_to_cpu(x)  __builtin_bswap64(x)
# define __bpf_cpu_to_be64(x)  __builtin_bswap64(x)
# define __bpf_constant_be64_to_cpu(x) ___bpf_swab64(x)
# define __bpf_constant_cpu_to_be64(x) ___bpf_swab64(x)
#elif __BYTE_ORDER__ == __ORDER_BIG_ENDIAN__
# define __bpf_ntohs(x)   (x)
# define __bpf_htons(x)   (x)
# define __bpf_constant_ntohs(x) (x)
# define __bpf_constant_htons(x) (x)
# define __bpf_ntohl(x)   (x)
# define __bpf_htonl(x)   (x)
# define __bpf_constant_ntohl(x) (x)
# define __bpf_constant_htonl(x) (x)
# define __bpf_be64_to_cpu(x)  (x)
# define __bpf_cpu_to_be64(x)  (x)
# define __bpf_constant_be64_to_cpu(x)  (x)
# define __bpf_constant_cpu_to_be64(x)
  (x)
#else
# error "Fix your compiler's __BYTE_ORDER__?!"
#endif

#define bpf_htons(x)    \
 (__builtin_constant_p(x) ?  \
  __bpf_constant_htons(x) : __bpf_htons(x))
#define bpf_ntohs(x)    \
 (__builtin_constant_p(x) ?  \
  __bpf_constant_ntohs(x) : __bpf_ntohs(x))
#define bpf_htonl(x)    \
 (__builtin_constant_p(x) ?  \
  __bpf_constant_htonl(x) : __bpf_htonl(x))
#define bpf_ntohl(x)    \
 (__builtin_constant_p(x) ?  \
  __bpf_constant_ntohl(x) : __bpf_ntohl(x))
#define bpf_cpu_to_be64(x)   \
 (__builtin_constant_p(x) ?  \
  __bpf_constant_cpu_to_be64(x) : __bpf_cpu_to_be64(x))
#define bpf_be64_to_cpu(x)   \
 (__builtin_constant_p(x) ?  \
  __bpf_constant_be64_to_cpu(x) : __bpf_be64_to_cpu(x))
```

```
#endif /* __BPF_ENDIAN__ */
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2021 Tigera, Inc. All rights reserved.
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#include <linux/types.h>
#include <linux/bpf.h>
#include <linux/pkt_cls.h>
#ifdef IPVER6
#include <linux/ipv6.h>
#include <linux/icmpv6.h>
#else
#include <linux/ip.h>
#include <linux/icmp.h>
#endif
#include <linux/tcp.h>
#include <linux/in.h>
#include <linux/udp.h>
#include <linux/if_ether.h>
#include <iproute2/bpf_elf.h>

#include <stdbool.h>

#include "bpf.h"
#include "types.h"
#include "counters.h"
#include "jump.h"

const volatile struct cali_tc_preamble_globals __globals;

static CALI_BPF_INLINE int calico_unittest_entry (struct __sk_buff *skb);

__attribute__((section("tc"))) int unittest(struct __sk_buff *skb)
{
 return calico_unittest_entry(skb);
}
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_ROUTES_H__
#define __CALI_ROUTES_H__

#include <linux/in.h>
#include "bpf.h"

// Map: Routes
```

```
struct cali_rt_key {
 __u32 prefixlen;
 ipv46_addr_t addr; // NBO
};

union cali_rt_lpm_key {
 struct bpf_lpm_trie_key lpm;
 struct cali_rt_key key;
};

enum cali_rt_flags {
 CALI_RT_UNKNOWN     = 0x00,
 CALI_RT_IN_POOL     = 0x01,
 CALI_RT_NAT_OUT     = 0x02,
 CALI_RT_WORKLOAD    = 0x04,
 CALI_RT_LOCAL       = 0x08,
 CALI_RT_HOST        = 0x10,
 CALI_RT_SAME_SUBNET = 0x20,
 CALI_RT_TUNNELED    = 0x40,
 CALI_RT_NO_DSR      = 0x80,
 CALI_RT_BLACKHOLE_DROP  = 0x100,
 CALI_RT_BLACKHOLE_REJECT  = 0x200,
};

struct cali_rt {
 __u32 flags; /* enum cali_rt_flags */
 union {
  // IP encap next hop for remote workload routes.
  ipv46_addr_t next_hop;
  // Interface index for local workload routes.
  __u32 if_index;
 };
};

#ifdef
 IPVER6
CALI_MAP_NAMED(cali_v6_routes, cali_routes,,
#else
CALI_MAP_NAMED(cali_v4_routes, cali_routes,,
#endif
  BPF_MAP_TYPE_LPM_TRIE,
  union cali_rt_lpm_key, struct cali_rt,
  256*1024, BPF_F_NO_PREALLOC)

static CALI_BPF_INLINE struct cali_rt *cali_rt_lookup(ipv46_addr_t *addr)
{
 union cali_rt_lpm_key k;
```

```
#ifdef IPVER6
 k.key.prefixlen = 128;
#else
 k.key.prefixlen = 32;
#endif
 k.key.addr = *addr;
 return cali_routes_lookup_elem(&k);
}

static CALI_BPF_INLINE enum cali_rt_flags cali_rt_lookup_flags(ipv46_addr_t *addr)
{
 struct cali_rt *rt = cali_rt_lookup(addr);
 if (!rt) {
  return CALI_RT_UNKNOWN;
 }
 return rt->flags;
}

#define cali_rt_is_local(rt) ((rt)->flags & CALI_RT_LOCAL)
#define cali_rt_is_host(rt) ((rt)->flags & CALI_RT_HOST)
#define cali_rt_is_workload(rt) ((rt)->flags & CALI_RT_WORKLOAD)
#define cali_rt_is_tunneled(rt) ((rt)->flags & CALI_RT_TUNNELED)
#define cali_rt_is_blackhole_drop(rt) ((rt)->flags & CALI_RT_BLACKHOLE_DROP)
#define cali_rt_is_blackhole_reject(rt)
 ((rt)->flags & CALI_RT_BLACKHOLE_REJECT)

#define cali_rt_flags_host(t) (((t) & CALI_RT_HOST) == CALI_RT_HOST)
#define cali_rt_flags_local_host(t) (((t) & (CALI_RT_LOCAL | CALI_RT_HOST)) == (CALI_RT_LOCAL |
CALI_RT_HOST))
#define cali_rt_flags_local_workload(t) (((t) & CALI_RT_LOCAL) && ((t) & CALI_RT_WORKLOAD))
#define cali_rt_flags_remote_workload(t) (!((t) & CALI_RT_LOCAL) && ((t) & CALI_RT_WORKLOAD))
#define cali_rt_flags_remote_host(t) (((t) & (CALI_RT_LOCAL | CALI_RT_HOST)) == CALI_RT_HOST)
#define cali_rt_flags_remote_tunneled_host(t) (((t) & (CALI_RT_LOCAL | CALI_RT_HOST |
CALI_RT_TUNNELED)) == (CALI_RT_HOST | CALI_RT_TUNNELED))
#define cali_rt_flags_local_tunneled_host(t) (((t) & (CALI_RT_LOCAL | CALI_RT_HOST |
CALI_RT_TUNNELED)) == (CALI_RT_LOCAL | CALI_RT_HOST | CALI_RT_TUNNELED))

static CALI_BPF_INLINE bool rt_addr_is_local_host(ipv46_addr_t *addr)
{
 return  cali_rt_flags_local_host(cali_rt_lookup_flags(addr));
}

static CALI_BPF_INLINE bool rt_addr_is_remote_host(ipv46_addr_t
 *addr)
{
 return  cali_rt_flags_remote_host(cali_rt_lookup_flags(addr));
}
```

```
static CALI_BPF_INLINE bool rt_addr_is_remote_tunneled_host(ipv46_addr_t *addr)
{
 return cali_rt_flags_remote_tunneled_host(cali_rt_lookup_flags(addr));
}

static CALI_BPF_INLINE bool rt_addr_is_local_tunneled_host(ipv46_addr_t *addr)
{
 return cali_rt_flags_local_tunneled_host(cali_rt_lookup_flags(addr));
}
#endif /* __CALI_ROUTES_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __BPF_CORE_READ_H__
#define __BPF_CORE_READ_H__

#include "bpf_helpers.h"

/*
* enum bpf_field_info_kind is passed as a second argument into
* __builtin_preserve_field_info() built-in to get a specific aspect of
* a field, captured as a first argument. __builtin_preserve_field_info(field,
* info_kind) returns __u32 integer and produces BTF field relocation, which
* is understood and processed by libbpf during BPF object loading. See
* selftests/bpf for examples.
*/
enum bpf_field_info_kind {
 BPF_FIELD_BYTE_OFFSET = 0, /* field byte offset */
 BPF_FIELD_BYTE_SIZE = 1,
 BPF_FIELD_EXISTS = 2,  /* field existence in target kernel */
 BPF_FIELD_SIGNED = 3,
 BPF_FIELD_LSHIFT_U64 = 4,
 BPF_FIELD_RSHIFT_U64 = 5,
};

/* second argument to __builtin_btf_type_id() built-in */
enum bpf_type_id_kind {
 BPF_TYPE_ID_LOCAL = 0,  /* BTF type ID in local program */
 BPF_TYPE_ID_TARGET = 1,  /* BTF type ID in target kernel */
};

/*
 second argument to __builtin_preserve_type_info() built-in */
enum bpf_type_info_kind {
 BPF_TYPE_EXISTS = 0,  /* type existence in target kernel */
 BPF_TYPE_SIZE = 1,  /* type size in target kernel */
 BPF_TYPE_MATCHES = 2,  /* type match in target kernel */
};

/* second argument to __builtin_preserve_enum_value() built-in */
```

```
enum bpf_enum_value_kind {
 BPF_ENUMVAL_EXISTS = 0,  /* enum value existence in kernel */
 BPF_ENUMVAL_VALUE = 1,  /* enum value value relocation */
};

#define __CORE_RELO(src, field, info)          \
 __builtin_preserve_field_info((src)->field, BPF_FIELD_##info)

#if __BYTE_ORDER__ == __ORDER_LITTLE_ENDIAN__
#define __CORE_BITFIELD_PROBE_READ(dst, src, fld)        \
 bpf_probe_read_kernel(           \
   (void *)dst,          \
   __CORE_RELO(src, fld, BYTE_SIZE),        \
   (const void *)src + __CORE_RELO(src, fld, BYTE_OFFSET))
#else
/* semantics of LSHIFT_64 assumes loading values into low-ordered bytes, so
* for big-endian we need to adjust destination
 pointer accordingly, based on
* field byte size
*/
#define __CORE_BITFIELD_PROBE_READ(dst, src, fld)        \
 bpf_probe_read_kernel(           \
   (void *)dst + (8 - __CORE_RELO(src, fld, BYTE_SIZE)), \
   __CORE_RELO(src, fld, BYTE_SIZE),        \
   (const void *)src + __CORE_RELO(src, fld, BYTE_OFFSET))
#endif

/*
* Extract bitfield, identified by s->field, and return its value as u64.
* All this is done in relocatable manner, so bitfield changes such as
* signedness, bit size, offset changes, this will be handled automatically.
* This version of macro is using bpf_probe_read_kernel() to read underlying
* integer storage. Macro functions as an expression and its return type is
* bpf_probe_read_kernel()'s return value: 0, on success, <0 on error.
*/
#define BPF_CORE_READ_BITFIELD_PROBED(s, field) ({        \
 unsigned long long val = 0;          \
              \
 __CORE_BITFIELD_PROBE_READ(&val, s, field);        \
 val <<= __CORE_RELO(s, field, LSHIFT_U64);
     \
 if (__CORE_RELO(s, field, SIGNED))         \
  val = ((long long)val) >> __CORE_RELO(s, field, RSHIFT_U64);  \
 else             \
  val = val >> __CORE_RELO(s, field, RSHIFT_U64);        \
 val;             \
})
```

```
/*
* Extract bitfield, identified by s->field, and return its value as u64.
* This version of macro is using direct memory reads and should be used from
* BPF program types that support such functionality (e.g., typed raw
* tracepoints).
*/
#define BPF_CORE_READ_BITFIELD(s, field) ({          \
 const void *p = (const void *)s + __CORE_RELO(s, field, BYTE_OFFSET); \
 unsigned long long val;           \
              \
 /* This is a so-called barrier_var() operation that makes specified   \
  * variable "a black box" for optimizing compiler.       \
  * It forces compiler to perform BYTE_OFFSET relocation on p and use  \
  * its calculated value in the switch below, instead of applying      \
  * the same relocation 4 times for each individual memory load.
      \
  */             \
 asm volatile("" : "=r"(p) : "0"(p));          \
              \
 switch (__CORE_RELO(s, field, BYTE_SIZE)) {         \
 case 1: val = *(const unsigned char *)p; break;         \
 case 2: val = *(const unsigned short *)p; break;        \
 case 4: val = *(const unsigned int *)p; break;         \
 case 8: val = *(const unsigned long long *)p; break;        \
 default: val = 0; break;           \
 }             \
 val <<= __CORE_RELO(s, field, LSHIFT_U64);         \
 if (__CORE_RELO(s, field, SIGNED))          \
  val = ((long long)val) >> __CORE_RELO(s, field, RSHIFT_U64);  \
 else             \
  val = val >> __CORE_RELO(s, field, RSHIFT_U64);        \
 val;             \
})

/*
* Write to a bitfield, identified by s->field.
* This is the inverse of BPF_CORE_WRITE_BITFIELD().
*/
#define BPF_CORE_WRITE_BITFIELD(s, field, new_val) ({   \
 void *p = (void *)s + __CORE_RELO(s, field, BYTE_OFFSET); \
 unsigned int byte_size = __CORE_RELO(s, field, BYTE_SIZE); \
 unsigned
 int lshift = __CORE_RELO(s, field, LSHIFT_U64); \
 unsigned int rshift = __CORE_RELO(s, field, RSHIFT_U64); \
 unsigned long long mask, val, nval = new_val;   \
 unsigned int rpad = rshift - lshift;    \
        \
 asm volatile("" : "+r"(p));     \
```

```
        \
 switch (byte_size) {      \
 case 1: val = *(unsigned char *)p; break;   \
 case 2: val = *(unsigned short *)p; break;   \
 case 4: val = *(unsigned int *)p; break;   \
 case 8: val = *(unsigned long long *)p; break;   \
 }        \
        \
 mask = (~0ULL << rshift) >> lshift;    \
 val = (val & ~mask) | ((nval << rpad) & mask);   \
        \
 switch (byte_size) {      \
 case 1: *(unsigned char *)p      = val; break;   \
 case 2: *(unsigned short *)p     = val; break;   \
 case 4: *(unsigned int *)p       = val; break;   \
 case 8: *(unsigned long long *)p = val; break;   \
 }        \
})

/* Differentiator between compilers builtin implementations. This is a
* requirement due to the compiler parsing differences
 where GCC optimizes
* early in parsing those constructs of type pointers to the builtin specific
* type, resulting in not being possible to collect the required type
* information in the builtin expansion.
*/
#ifdef __clang__
#define ___bpf_typeof(type) ((typeof(type) *) 0)
#else
#define ___bpf_typeof1(type, NR) ({         \
 extern typeof(type) *___concat(bpf_type_tmp_, NR);      \
 ___concat(bpf_type_tmp_, NR);         \
})
#define ___bpf_typeof(type) ___bpf_typeof1(type, __COUNTER__)
#endif

#ifdef __clang__
#define ___bpf_field_ref1(field) (field)
#define ___bpf_field_ref2(type, field) (___bpf_typeof(type)->field)
#else
#define ___bpf_field_ref1(field) (&(field))
#define ___bpf_field_ref2(type, field) (&(___bpf_typeof(type)->field))
#endif
#define ___bpf_field_ref(args...)         \
 ___bpf_apply(___bpf_field_ref, ___bpf_narg(args))(args)

/*
* Convenience macro to check that field actually exists in target kernel's.
```

```
* Returns:
*    1, if matching field is present in target
 kernel;
*    0, if no matching field found.
*
* Supports two forms:
*   - field reference through variable access:
*     bpf_core_field_exists(p->my_field);
*   - field reference through type and field names:
*     bpf_core_field_exists(struct my_type, my_field).
*/
#define bpf_core_field_exists(field...)         \
 __builtin_preserve_field_info(___bpf_field_ref(field), BPF_FIELD_EXISTS)

/*
* Convenience macro to get the byte size of a field. Works for integers,
* struct/unions, pointers, arrays, and enums.
*
* Supports two forms:
*   - field reference through variable access:
*     bpf_core_field_size(p->my_field);
*   - field reference through type and field names:
*     bpf_core_field_size(struct my_type, my_field).
*/
#define bpf_core_field_size(field...)         \
 __builtin_preserve_field_info(___bpf_field_ref(field), BPF_FIELD_BYTE_SIZE)

/*
* Convenience macro to get field's byte offset.
*
* Supports two forms:
*   - field reference through variable access:
 *     bpf_core_field_offset(p->my_field);
*   - field reference through type and field names:
*     bpf_core_field_offset(struct my_type, my_field).
*/
#define bpf_core_field_offset(field...)         \
 __builtin_preserve_field_info(___bpf_field_ref(field), BPF_FIELD_BYTE_OFFSET)

/*
* Convenience macro to get BTF type ID of a specified type, using a local BTF
* information. Return 32-bit unsigned integer with type ID from program's own
* BTF. Always succeeds.
*/
#define bpf_core_type_id_local(type)         \
 __builtin_btf_type_id(*___bpf_typeof(type), BPF_TYPE_ID_LOCAL)

/*
```

```
* Convenience macro to get BTF type ID of a target kernel's type that matches
* specified local type.
* Returns:
*    - valid 32-bit unsigned type ID in kernel BTF;
*    - 0, if no matching type was found in a target kernel BTF.
*/
#define bpf_core_type_id_kernel(type)        \
 __builtin_btf_type_id(*___bpf_typeof(type), BPF_TYPE_ID_TARGET)

/*
* Convenience macro to check that provided named
 type
* (struct/union/enum/typedef) exists in a target kernel.
* Returns:
*    1, if such type is present in target kernel's BTF;
*    0, if no matching type is found.
*/
#define bpf_core_type_exists(type)        \
 __builtin_preserve_type_info(*___bpf_typeof(type), BPF_TYPE_EXISTS)

/*
* Convenience macro to check that provided named type
* (struct/union/enum/typedef) "matches" that in a target kernel.
* Returns:
*    1, if the type matches in the target kernel's BTF;
*    0, if the type does not match any in the target kernel
*/
#define bpf_core_type_matches(type)        \
 __builtin_preserve_type_info(*___bpf_typeof(type), BPF_TYPE_MATCHES)

/*
* Convenience macro to get the byte size of a provided named type
* (struct/union/enum/typedef) in a target kernel.
* Returns:
*    >= 0 size (in bytes), if type is present in target kernel's BTF;
*    0, if no matching type is found.
*/
#define bpf_core_type_size(type)        \
 __builtin_preserve_type_info(*___bpf_typeof(type),
 BPF_TYPE_SIZE)

/*
* Convenience macro to check that provided enumerator value is defined in
* a target kernel.
* Returns:
*    1, if specified enum type and its enumerator value are present in target
*    kernel's BTF;
*    0, if no matching enum and/or enum value within that enum is found.
```

```
*/
#ifdef __clang__
#define bpf_core_enum_value_exists(enum_type, enum_value)      \
 __builtin_preserve_enum_value(*(typeof(enum_type) *)enum_value, BPF_ENUMVAL_EXISTS)
#else
#define bpf_core_enum_value_exists(enum_type, enum_value)      \
 __builtin_preserve_enum_value(___bpf_typeof(enum_type), enum_value, BPF_ENUMVAL_EXISTS)
#endif

/*
* Convenience macro to get the integer value of an enumerator value in
* a target kernel.
* Returns:
*    64-bit value, if specified enum type and its enumerator value are
*    present in target kernel's BTF;
*    0, if no matching enum and/or enum value within that enum is found.
*/
#ifdef __clang__
#define bpf_core_enum_value(enum_type, enum_value)
    \
 __builtin_preserve_enum_value(*(typeof(enum_type) *)enum_value, BPF_ENUMVAL_VALUE)
#else
#define bpf_core_enum_value(enum_type, enum_value)       \
 __builtin_preserve_enum_value(___bpf_typeof(enum_type), enum_value, BPF_ENUMVAL_VALUE)
#endif

/*
* bpf_core_read() abstracts away bpf_probe_read_kernel() call and captures
* offset relocation for source address using __builtin_preserve_access_index()
* built-in, provided by Clang.
*
* __builtin_preserve_access_index() takes as an argument an expression of
* taking an address of a field within struct/union. It makes compiler emit
* a relocation, which records BTF type ID describing root struct/union and an
* accessor string which describes exact embedded field that was used to take
* an address. See detailed description of this relocation format and
* semantics in comments to struct bpf_core_relo in include/uapi/linux/bpf.h.
*
* This relocation allows libbpf to adjust BPF instruction to use correct
* actual
 field offset, based on target kernel BTF type that matches original
* (local) BTF, used to record relocation.
*/
#define bpf_core_read(dst, sz, src)         \
 bpf_probe_read_kernel(dst, sz, (const void *)__builtin_preserve_access_index(src))

/* NOTE: see comments for BPF_CORE_READ_USER() about the proper types use. */
#define bpf_core_read_user(dst, sz, src)        \
```

```
 bpf_probe_read_user(dst, sz, (const void *)__builtin_preserve_access_index(src))
/*
* bpf_core_read_str() is a thin wrapper around bpf_probe_read_str()
* additionally emitting BPF CO-RE field relocation for specified source
* argument.
*/
#define bpf_core_read_str(dst, sz, src)         \
 bpf_probe_read_kernel_str(dst, sz, (const void *)__builtin_preserve_access_index(src))

/* NOTE: see comments for BPF_CORE_READ_USER() about the proper types use. */
#define bpf_core_read_user_str(dst, sz, src)        \
 bpf_probe_read_user_str(dst, sz, (const void *)__builtin_preserve_access_index(src))

extern void *bpf_rdonly_cast(const
 void *obj, __u32 btf_id) __ksym __weak;

/*
* Cast provided pointer *ptr* into a pointer to a specified *type* in such
* a way that BPF verifier will become aware of associated kernel-side BTF
* type. This allows to access members of kernel types directly without the
* need to use BPF_CORE_READ() macros.
*/
#define bpf_core_cast(ptr, type)         \
 ((typeof(type) *)bpf_rdonly_cast((ptr), bpf_core_type_id_kernel(type)))

#define ___concat(a, b) a ## b
#define ___apply(fn, n) ___concat(fn, n)
#define ___nth(_1, _2, _3, _4, _5, _6, _7, _8, _9, _10, __11, N, ...) N

/*
* return number of provided arguments; used for switch-based variadic macro
* definitions (see ___last, ___arrow, etc below)
*/
#define ___narg(...) ___nth(_, ##__VA_ARGS__, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0)
/*
* return 0 if no arguments are passed, N - otherwise; used for
* recursively-defined macros to specify termination (0) case, and generic
* (N) case (e.g., ___read_ptrs, ___core_read)
*/
#define
 ___empty(...) ___nth(_, ##__VA_ARGS__, N, N, N, N, N, N, N, N, N, N, 0)

#define ___last1(x) x
#define ___last2(a, x) x
#define ___last3(a, b, x) x
#define ___last4(a, b, c, x) x
#define ___last5(a, b, c, d, x) x
#define ___last6(a, b, c, d, e, x) x
```

```
#define ___last7(a, b, c, d, e, f, x) x
#define ___last8(a, b, c, d, e, f, g, x) x
#define ___last9(a, b, c, d, e, f, g, h, x) x
#define ___last10(a, b, c, d, e, f, g, h, i, x) x
#define ___last(...) ___apply(___last, ___narg(__VA_ARGS__))(__VA_ARGS__)

#define ___nolast2(a, _) a
#define ___nolast3(a, b, _) a, b
#define ___nolast4(a, b, c, _) a, b, c
#define ___nolast5(a, b, c, d, _) a, b, c, d
#define ___nolast6(a, b, c, d, e, _) a, b, c, d, e
#define ___nolast7(a, b, c, d, e, f, _) a, b, c, d, e, f
#define ___nolast8(a, b, c, d, e, f, g, _) a, b, c, d, e, f, g
#define ___nolast9(a, b, c, d, e, f, g, h, _) a, b, c, d, e, f, g, h
#define ___nolast10(a, b, c, d, e, f, g, h, i, _) a, b, c, d, e, f, g, h, i
#define ___nolast(...) ___apply(___nolast,
 ___narg(__VA_ARGS__))(__VA_ARGS__)

#define ___arrow1(a) a
#define ___arrow2(a, b) a->b
#define ___arrow3(a, b, c) a->b->c
#define ___arrow4(a, b, c, d) a->b->c->d
#define ___arrow5(a, b, c, d, e) a->b->c->d->e
#define ___arrow6(a, b, c, d, e, f) a->b->c->d->e->f
#define ___arrow7(a, b, c, d, e, f, g) a->b->c->d->e->f->g
#define ___arrow8(a, b, c, d, e, f, g, h) a->b->c->d->e->f->g->h
#define ___arrow9(a, b, c, d, e, f, g, h, i) a->b->c->d->e->f->g->h->i
#define ___arrow10(a, b, c, d, e, f, g, h, i, j) a->b->c->d->e->f->g->h->i->j
#define ___arrow(...) ___apply(___arrow, ___narg(__VA_ARGS__))(__VA_ARGS__)

#define ___type(...) typeof(___arrow(__VA_ARGS__))

#define ___read(read_fn, dst, src_type, src, accessor)      \
 read_fn((void *)(dst), sizeof(*(dst)), &((src_type)(src))->accessor)

/* "recursively" read a sequence of inner pointers using local __t var */
#define ___rd_first(fn, src, a) ___read(fn, &__t, ___type(src), src, a);
#define ___rd_last(fn, ...)         \
 ___read(fn,
 &__t, ___type(___nolast(__VA_ARGS__)), __t, ___last(__VA_ARGS__));
#define ___rd_p1(fn, ...) const void *__t; ___rd_first(fn, __VA_ARGS__)
#define ___rd_p2(fn, ...) ___rd_p1(fn, ___nolast(__VA_ARGS__)) ___rd_last(fn, __VA_ARGS__)
#define ___rd_p3(fn, ...) ___rd_p2(fn, ___nolast(__VA_ARGS__)) ___rd_last(fn, __VA_ARGS__)
#define ___rd_p4(fn, ...) ___rd_p3(fn, ___nolast(__VA_ARGS__)) ___rd_last(fn, __VA_ARGS__)
#define ___rd_p5(fn, ...) ___rd_p4(fn, ___nolast(__VA_ARGS__)) ___rd_last(fn, __VA_ARGS__)
#define ___rd_p6(fn, ...) ___rd_p5(fn, ___nolast(__VA_ARGS__)) ___rd_last(fn, __VA_ARGS__)
#define ___rd_p7(fn, ...) ___rd_p6(fn, ___nolast(__VA_ARGS__)) ___rd_last(fn, __VA_ARGS__)
#define ___rd_p8(fn, ...) ___rd_p7(fn, ___nolast(__VA_ARGS__)) ___rd_last(fn, __VA_ARGS__)
```

```
#define ___rd_p9(fn, ...) ___rd_p8(fn, ___nolast(__VA_ARGS__)) ___rd_last(fn, __VA_ARGS__)
#define ___read_ptrs(fn, src, ...)        \
 ___apply(___rd_p, ___narg(__VA_ARGS__))(fn, src, __VA_ARGS__)

#define ___core_read0(fn,
 fn_ptr, dst, src, a)       \
 ___read(fn, dst, ___type(src), src, a);
#define ___core_readN(fn, fn_ptr, dst, src, ...)       \
 ___read_ptrs(fn_ptr, src, ___nolast(__VA_ARGS__))      \
 ___read(fn, dst, ___type(src, ___nolast(__VA_ARGS__)), __t,     \
  ___last(__VA_ARGS__));
#define ___core_read(fn, fn_ptr, dst, src, a, ...)       \
 ___apply(___core_read, ___empty(__VA_ARGS__))(fn, fn_ptr, dst,     \
          src, a, ##__VA_ARGS__)

/*
* BPF_CORE_READ_INTO() is a more performance-conscious variant of
* BPF_CORE_READ(), in which final field is read into user-provided storage.
* See BPF_CORE_READ() below for more details on general usage.
*/
#define BPF_CORE_READ_INTO(dst, src, a, ...) ({        \
 ___core_read(bpf_core_read, bpf_core_read,       \
      dst, (src), a, ##__VA_ARGS__)       \
})

/*
* Variant of BPF_CORE_READ_INTO() for reading from user-space memory.
*
* NOTE: see comments for BPF_CORE_READ_USER() about the proper types use.
*/
#define BPF_CORE_READ_USER_INTO(dst,
 src, a, ...) ({       \
 ___core_read(bpf_core_read_user, bpf_core_read_user,      \
      dst, (src), a, ##__VA_ARGS__)       \
})

/* Non-CO-RE variant of BPF_CORE_READ_INTO() */
#define BPF_PROBE_READ_INTO(dst, src, a, ...) ({       \
 ___core_read(bpf_probe_read_kernel, bpf_probe_read_kernel,     \
      dst, (src), a, ##__VA_ARGS__)       \
})

/* Non-CO-RE variant of BPF_CORE_READ_USER_INTO().
*
* As no CO-RE relocations are emitted, source types can be arbitrary and are
* not restricted to kernel types only.
*/
#define BPF_PROBE_READ_USER_INTO(dst, src, a, ...) ({       \
```

```
 ___core_read(bpf_probe_read_user, bpf_probe_read_user,      \
      dst, (src), a, ##__VA_ARGS__)       \
})

/*
* BPF_CORE_READ_STR_INTO() does same "pointer chasing" as
* BPF_CORE_READ() for intermediate pointers, but then executes (and returns
* corresponding error code) bpf_core_read_str() for final string read.
*/
#define BPF_CORE_READ_STR_INTO(dst, src, a, ...) ({       \
 ___core_read(bpf_core_read_str,
 bpf_core_read,       \
      dst, (src), a, ##__VA_ARGS__)       \
})

/*
* Variant of BPF_CORE_READ_STR_INTO() for reading from user-space memory.
*
* NOTE: see comments for BPF_CORE_READ_USER() about the proper types use.
*/
#define BPF_CORE_READ_USER_STR_INTO(dst, src, a, ...) ({      \
 ___core_read(bpf_core_read_user_str, bpf_core_read_user,     \
      dst, (src), a, ##__VA_ARGS__)       \
})

/* Non-CO-RE variant of BPF_CORE_READ_STR_INTO() */
#define BPF_PROBE_READ_STR_INTO(dst, src, a, ...) ({       \
 ___core_read(bpf_probe_read_kernel_str, bpf_probe_read_kernel,     \
      dst, (src), a, ##__VA_ARGS__)       \
})

/*
* Non-CO-RE variant of BPF_CORE_READ_USER_STR_INTO().
*
* As no CO-RE relocations are emitted, source types can be arbitrary and are
* not restricted to kernel types only.
*/
#define BPF_PROBE_READ_USER_STR_INTO(dst, src, a, ...) ({      \
 ___core_read(bpf_probe_read_user_str, bpf_probe_read_user,     \
      dst, (src),
 a, ##__VA_ARGS__)       \
})

/*
* BPF_CORE_READ() is used to simplify BPF CO-RE relocatable read, especially
* when there are few pointer chasing steps.
* E.g., what in non-BPF world (or in BPF w/ BCC) would be something like:
* int x = s->a.b.c->d.e->f->g;
```

```
* can be succinctly achieved using BPF_CORE_READ as:
* int x = BPF_CORE_READ(s, a.b.c, d.e, f, g);
*
* BPF_CORE_READ will decompose above statement into 4 bpf_core_read (BPF
* CO-RE relocatable bpf_probe_read_kernel() wrapper) calls, logically
* equivalent to:
* 1. const void *__t = s->a.b.c;
* 2. __t = __t->d.e;
* 3. __t = __t->f;
* 4. return __t->g;
*
* Equivalence is logical, because there is a heavy type casting/preservation
* involved, as well as all the reads are happening through
* bpf_probe_read_kernel() calls using __builtin_preserve_access_index() to
* emit CO-RE relocations.
*
* N.B. Only up to 9 "field accessors" are supported, which should be more
* than enough for any practical purpose.
*/
#define
 BPF_CORE_READ(src, a, ...) ({        \
 ___type((src), a, ##__VA_ARGS__) __r;       \
 BPF_CORE_READ_INTO(&__r, (src), a, ##__VA_ARGS__);      \
 __r;           \
})

/*
* Variant of BPF_CORE_READ() for reading from user-space memory.
*
* NOTE: all the source types involved are still *kernel types* and need to
* exist in kernel (or kernel module) BTF, otherwise CO-RE relocation will
* fail. Custom user types are not relocatable with CO-RE.
* The typical situation in which BPF_CORE_READ_USER() might be used is to
* read kernel UAPI types from the user-space memory passed in as a syscall
* input argument.
*/
#define BPF_CORE_READ_USER(src, a, ...) ({        \
 ___type((src), a, ##__VA_ARGS__) __r;       \
 BPF_CORE_READ_USER_INTO(&__r, (src), a, ##__VA_ARGS__);      \
 __r;           \
})

/* Non-CO-RE variant of BPF_CORE_READ() */
#define BPF_PROBE_READ(src, a, ...) ({        \
 ___type((src), a, ##__VA_ARGS__) __r;       \
 BPF_PROBE_READ_INTO(&__r, (src), a, ##__VA_ARGS__);
   \
 __r;           \
```

```
})

/*
* Non-CO-RE variant of BPF_CORE_READ_USER().
*
* As no CO-RE relocations are emitted, source types can be arbitrary and are
* not restricted to kernel types only.
*/
#define BPF_PROBE_READ_USER(src, a, ...) ({        \
 ___type((src), a, ##__VA_ARGS__) __r;        \
 BPF_PROBE_READ_USER_INTO(&__r, (src), a, ##__VA_ARGS__);     \
 __r;            \
})

#endif
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
#ifndef _UAPI_LINUX_OPENAT2_H
#define _UAPI_LINUX_OPENAT2_H

#include <linux/types.h>

/*
* Arguments for how openat2(2) should open the target path. If only @flags and
* @mode are non-zero, then openat2(2) operates very similarly to openat(2).
*
* However, unlike openat(2), unknown or invalid bits in @flags result in
* -EINVAL rather than being silently ignored. @mode must be zero unless one of
* {O_CREAT, O_TMPFILE} are set.
*
* @flags: O_* flags.
* @mode: O_CREAT/O_TMPFILE file mode.
* @resolve: RESOLVE_* flags.
*/
struct open_how {
 __u64 flags;
 __u64 mode;
 __u64 resolve;
};

/* how->resolve flags for openat2(2). */
#define RESOLVE_NO_XDEV  0x01 /* Block mount-point crossings
    (includes bind-mounts). */
#define RESOLVE_NO_MAGICLINKS 0x02 /* Block traversal through procfs-style
    "magic-links". */
#define RESOLVE_NO_SYMLINKS 0x04 /* Block traversal through all symlinks
    (implies OEXT_NO_MAGICLINKS)
 */
#define RESOLVE_BENEATH  0x08 /* Block "lexical" trickery like
```

```
    "..", symlinks, and absolute
    paths which escape the dirfd. */
#define RESOLVE_IN_ROOT  0x10 /* Make all jumps to "/" and ".."
    be scoped inside the dirfd
    (similar to chroot(2)). */
#define RESOLVE_CACHED  0x20 /* Only complete if resolution can be
    completed through cached lookup. May
    return -EAGAIN if that's not
    possible. */

#endif /* _UAPI_LINUX_OPENAT2_H */
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
/* Copyright (c) 2018 Facebook */
#ifndef _UAPI__LINUX_BTF_H__
#define _UAPI__LINUX_BTF_H__

#include <linux/types.h>

#define BTF_MAGIC 0xeB9F
#define BTF_VERSION 1

struct btf_header {
 __u16 magic;
 __u8 version;
 __u8 flags;
 __u32 hdr_len;

 /* All offsets are in bytes relative to the end of this header */
 __u32 type_off; /* offset of type section */
 __u32 type_len; /* length of type section */
 __u32 str_off; /* offset of string section */
 __u32 str_len; /* length of string section */
};

/* Max # of type identifier */
#define BTF_MAX_TYPE 0x000fffff
/* Max offset into the string section */
#define BTF_MAX_NAME_OFFSET 0x00ffffff
/* Max # of struct/union/enum members or func args */
#define BTF_MAX_VLEN 0xffff

struct btf_type {
 __u32 name_off;
 /* "info" bits arrangement
  * bits  0-15: vlen (e.g. # of struct's members)
  * bits 16-23: unused
  * bits 24-28: kind (e.g. int, ptr, array...etc)
  * bits 29-30: unused
```

```
 * bit     31: kind_flag, currently used by
 *             struct, union, enum, fwd and enum64
 */
 __u32 info;
 /* "size" is used by INT, ENUM, STRUCT, UNION, DATASEC and ENUM64.
  * "size" tells the size of the type it is describing.
  *
  * "type" is used by PTR, TYPEDEF, VOLATILE, CONST, RESTRICT,
  * FUNC, FUNC_PROTO, VAR, DECL_TAG and TYPE_TAG.
  * "type" is a type_id referring to another type.
  */
 union {
  __u32 size;
  __u32 type;
 };
};

#define BTF_INFO_KIND(info) (((info) >> 24) & 0x1f)
#define BTF_INFO_VLEN(info) ((info) & 0xffff)
#define BTF_INFO_KFLAG(info) ((info) >> 31)

enum {
 BTF_KIND_UNKN  = 0, /* Unknown */
 BTF_KIND_INT  = 1, /* Integer */
 BTF_KIND_PTR  = 2, /* Pointer */
 BTF_KIND_ARRAY  = 3, /* Array */
 BTF_KIND_STRUCT  = 4, /* Struct */
 BTF_KIND_UNION  = 5, /* Union */
 BTF_KIND_ENUM  = 6, /* Enumeration up to 32-bit values */
 BTF_KIND_FWD  = 7, /* Forward */
 BTF_KIND_TYPEDEF = 8, /* Typedef */
 BTF_KIND_VOLATILE = 9, /* Volatile */
 BTF_KIND_CONST  =
 10, /* Const */
 BTF_KIND_RESTRICT = 11, /* Restrict */
 BTF_KIND_FUNC  = 12, /* Function */
 BTF_KIND_FUNC_PROTO = 13, /* Function Proto */
 BTF_KIND_VAR  = 14, /* Variable */
 BTF_KIND_DATASEC = 15, /* Section */
 BTF_KIND_FLOAT  = 16, /* Floating point */
 BTF_KIND_DECL_TAG = 17, /* Decl Tag */
 BTF_KIND_TYPE_TAG = 18, /* Type Tag */
 BTF_KIND_ENUM64  = 19, /* Enumeration up to 64-bit values */

 NR_BTF_KINDS,
 BTF_KIND_MAX  = NR_BTF_KINDS - 1,
};
```

```
/* For some specific BTF_KIND, "struct btf_type" is immediately
* followed by extra data.
*/

/* BTF_KIND_INT is followed by a u32 and the following
* is the 32 bits arrangement:
*/
#define BTF_INT_ENCODING(VAL) (((VAL) & 0x0f000000) >> 24)
#define BTF_INT_OFFSET(VAL) (((VAL) & 0x00ff0000) >> 16)
#define BTF_INT_BITS(VAL) ((VAL)  & 0x000000ff)

/* Attributes stored in the BTF_INT_ENCODING */
#define BTF_INT_SIGNED (1 << 0)
#define BTF_INT_CHAR (1 << 1)
#define BTF_INT_BOOL (1 << 2)

/* BTF_KIND_ENUM is followed by multiple "struct btf_enum".
 * The exact number of btf_enum is stored in the vlen (of the
* info in "struct btf_type").
*/
struct btf_enum {
 __u32 name_off;
 __s32 val;
};

/* BTF_KIND_ARRAY is followed by one "struct btf_array" */
struct btf_array {
 __u32 type;
 __u32 index_type;
 __u32 nelems;
};

/* BTF_KIND_STRUCT and BTF_KIND_UNION are followed
* by multiple "struct btf_member".  The exact number
* of btf_member is stored in the vlen (of the info in
* "struct btf_type").
*/
struct btf_member {
 __u32 name_off;
 __u32 type;
 /* If the type info kind_flag is set, the btf_member offset
  * contains both member bitfield size and bit offset. The
  * bitfield size is set for bitfield members. If the type
  * info kind_flag is not set, the offset contains only bit
  * offset.
  */
 __u32 offset;
```

```
};

/* If the struct/union type info kind_flag is set, the
* following two macros are used to access bitfield_size
* and bit_offset from btf_member.offset.
*/
#define BTF_MEMBER_BITFIELD_SIZE(val) ((val)
 >> 24)
#define BTF_MEMBER_BIT_OFFSET(val) ((val) & 0xffffff)

/* BTF_KIND_FUNC_PROTO is followed by multiple "struct btf_param".
* The exact number of btf_param is stored in the vlen (of the
* info in "struct btf_type").
*/
struct btf_param {
 __u32 name_off;
 __u32 type;
};

enum {
 BTF_VAR_STATIC = 0,
 BTF_VAR_GLOBAL_ALLOCATED = 1,
 BTF_VAR_GLOBAL_EXTERN = 2,
};

enum btf_func_linkage {
 BTF_FUNC_STATIC = 0,
 BTF_FUNC_GLOBAL = 1,
 BTF_FUNC_EXTERN = 2,
};

/* BTF_KIND_VAR is followed by a single "struct btf_var" to describe
* additional information related to the variable such as its linkage.
*/
struct btf_var {
 __u32 linkage;
};

/* BTF_KIND_DATASEC is followed by multiple "struct btf_var_secinfo"
* to describe all BTF_KIND_VAR types it contains along with it's
* in-section offset as well as size.
*/
struct btf_var_secinfo {
 __u32 type;
 __u32 offset;
 __u32 size;
};
```

```
/* BTF_KIND_DECL_TAG is followed by a single "struct btf_decl_tag" to describe
* additional information
 related to the tag applied location.
* If component_idx == -1, the tag is applied to a struct, union,
* variable or function. Otherwise, it is applied to a struct/union
* member or a func argument, and component_idx indicates which member
* or argument (0 ... vlen-1).
*/
struct btf_decl_tag {
	__s32	component_idx;
};

/* BTF_KIND_ENUM64 is followed by multiple "struct btf_enum64".
* The exact number of btf_enum64 is stored in the vlen (of the
* info in "struct btf_type").
*/
struct btf_enum64 {
 __u32 name_off;
 __u32 val_lo32;
 __u32 val_hi32;
};

#endif /* _UAPI__LINUX_BTF_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

/*
* Common user-facing libbpf helpers.
*
* Copyright (c) 2019 Facebook
*/

#ifndef __LIBBPF_LIBBPF_COMMON_H
#define __LIBBPF_LIBBPF_COMMON_H

#include <string.h>
#include "libbpf_version.h"

#ifndef LIBBPF_API
#define LIBBPF_API __attribute__((visibility("default")))
#endif

#define LIBBPF_DEPRECATED(msg) __attribute__((deprecated(msg)))

/* Mark a symbol as deprecated when libbpf version is >= {major}.{minor} */
#define LIBBPF_DEPRECATED_SINCE(major, minor, msg)	\
 __LIBBPF_MARK_DEPRECATED_ ## major ## _ ## minor	\
  (LIBBPF_DEPRECATED("libbpf v" # major "." # minor "+: " msg))
```

```
#define __LIBBPF_CURRENT_VERSION_GEQ(major, minor)	\
 (LIBBPF_MAJOR_VERSION > (major) ||	\
  (LIBBPF_MAJOR_VERSION == (major) && LIBBPF_MINOR_VERSION >= (minor)))

/* Add checks for other versions below when planning deprecation of API symbols
* with the LIBBPF_DEPRECATED_SINCE macro.
*/
#if __LIBBPF_CURRENT_VERSION_GEQ(1,
 0)
#define __LIBBPF_MARK_DEPRECATED_1_0(X) X
#else
#define __LIBBPF_MARK_DEPRECATED_1_0(X)
#endif

/* This set of internal macros allows to do "function overloading" based on
* number of arguments provided by used in backwards-compatible way during the
* transition to libbpf 1.0
* It's ugly but necessary evil that will be cleaned up when we get to 1.0.
* See bpf_prog_load() overload for example.
*/
#define ___libbpf_cat(A, B) A ## B
#define ___libbpf_select(NAME, NUM) ___libbpf_cat(NAME, NUM)
#define ___libbpf_nth(_1, _2, _3, _4, _5, _6, N, ...) N
#define ___libbpf_cnt(...) ___libbpf_nth(__VA_ARGS__, 6, 5, 4, 3, 2, 1)
#define ___libbpf_overload(NAME, ...) ___libbpf_select(NAME,
___libbpf_cnt(__VA_ARGS__))(__VA_ARGS__)

/* Helper macro to declare and initialize libbpf options struct
*
* This dance with uninitialized declaration, followed by memset to zero,
* followed by assignment using compound literal syntax is done to preserve
* ability to use a nice struct field initialization
 syntax and **hopefully**
* have all the padding bytes initialized to zero. It's not guaranteed though,
* when copying literal, that compiler won't copy garbage in literal's padding
* bytes, but that's the best way I've found and it seems to work in practice.
*
* Macro declares opts struct of given type and name, zero-initializes,
* including any extra padding, it with memset() and then assigns initial
* values provided by users in struct initializer-syntax as varargs.
*/
#define LIBBPF_OPTS(TYPE, NAME, ...)	\
 struct TYPE NAME = ({	\
  memset(&NAME, 0, sizeof(struct TYPE));	\
  (struct TYPE) {	\
   .sz = sizeof(struct TYPE),	\
   __VA_ARGS__	\
  };	\
```

```
 })

/* Helper macro to clear and optionally reinitialize libbpf options struct
*
* Small helper macro to reset all fields and to reinitialize the common
* structure size member. Values provided by users in struct initializer-
* syntax as varargs can be provided as well
 to reinitialize options struct
* specific members.
*/
#define LIBBPF_OPTS_RESET(NAME, ...)        \
 do {           \
  typeof(NAME) ___##NAME = ({         \
   memset(&___##NAME, 0, sizeof(NAME));      \
   (typeof(NAME)) {        \
    .sz = sizeof(NAME),       \
    __VA_ARGS__        \
   };         \
  });          \
  memcpy(&NAME, &___##NAME, sizeof(NAME));      \
 } while (0)

#endif /* __LIBBPF_LIBBPF_COMMON_H */
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_FIB_H__
#define __CALI_FIB_H__

#include "types.h"
#include "skb.h"
#include "ifstate.h"

#if CALI_FIB_ENABLED
#define fwd_fib(fwd)   ((fwd)->fib)
#define fwd_fib_set(fwd, v)  ((fwd)->fib = v)
#define fwd_fib_set_flags(fwd, flags) ((fwd)->fib_flags = flags)
#else
#define fwd_fib(fwd) false
#define fwd_fib_set(fwd, v)
#define fwd_fib_set_flags(fwd, flags)
#endif

static CALI_BPF_INLINE bool fib_approve(struct cali_tc_ctx *ctx, __u32 ifindex)
{
#ifdef UNITTEST
 /* Let's assume that unittest is setup so that WEP's are ready - for UT simplicity */
```

```
 return true;
#else
 /* If we are turning packets around on lo to a remote pod, approve the
  * fib as it does not concern a possibly not ready local WEP.
  */
 if (CALI_F_TO_HEP && ctx->state->flags & CALI_ST_CT_NP_REMOTE) {
  return true;
 }

 struct cali_tc_state *state
 = ctx->state;

 /* To avoid forwarding packets to workloads that are not yet ready, i.e
  * their tc programs are not attached yet, send unconfirmed packets via
  * iptables that will filter out packets to non-ready workloads.
  */
 if (!ct_result_is_confirmed(state->ct_result.rc)) {
  struct ifstate_val *val;

  if (!(val = (struct ifstate_val *)cali_iface_lookup_elem(&ifindex))) {
   CALI_DEBUG("FIB not approved - connection to unknown ep %d not confirmed.\n", ifindex);
   return false;
  }
  if (iface_is_workload(val->flags) && !iface_is_ready(val->flags)) {
   ctx->fwd.mark |= CALI_SKB_MARK_SKIP_FIB;
   CALI_DEBUG("FIB not approved - connection to unready ep %s (ifindex %d) not confirmed.\n",
     val->name, ifindex);
   CALI_DEBUG("FIB not approved - connection to unready ep %s (flags 0x%x) not confirmed.\n",
     val->name, val->flags);
   return false;
  }

  if (iface_is_not_managed(val->flags)) {
   CALI_DEBUG("Allow packets to host interface not managed by calico (ifindex %d).",
 ifindex);
   return true;
  }
 }

 return true;
#endif
}

static CALI_BPF_INLINE int forward_or_drop(struct cali_tc_ctx *ctx)
{
 int rc = ctx->fwd.res;
 enum calico_reason reason = ctx->fwd.reason;
 struct cali_tc_state *state = ctx->state;
```

```
if (rc == TC_ACT_SHOT) {
 goto deny;
}

if (rc == CALI_RES_REDIR_BACK) {
 int redir_flags = 0;
 if  (CALI_F_FROM_HOST) {
  redir_flags = BPF_F_INGRESS;
 }

 /* Revalidate the access to the packet */
 if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("Too short\n");
  goto deny;
 }

 /* Swap the MACs as we are turning it back */
 struct ethhdr *eth_hdr = ctx->data_start;
 unsigned char mac[ETH_ALEN];
 __builtin_memcpy(mac, &eth_hdr->h_dest, ETH_ALEN);
 __builtin_memcpy(&eth_hdr->h_dest, &eth_hdr->h_source, ETH_ALEN);
 __builtin_memcpy(&eth_hdr->h_source, mac, ETH_ALEN);

 rc = bpf_redirect(ctx->skb->ifindex, redir_flags);
 if (rc == TC_ACT_REDIRECT) {
  CALI_DEBUG("Redirect
to the same interface (%d) succeeded.\n", ctx->skb->ifindex);
  goto skip_fib;
 }

 CALI_DEBUG("Redirect to the same interface (%d) failed.\n", ctx->skb->ifindex);
 goto deny;
} else if (rc == CALI_RES_REDIR_IFINDEX) {
 __u32 iface = state->ct_result.ifindex_fwd;

 struct arp_value *arpv;

 struct arp_key arpk = {
  .ip = iface != NATIN_IFACE ? state->ip_dst : VOID_IP,
  .ifindex = iface,
 };

 arpv = cali_arp_lookup_elem(&arpk);
 if (!arpv) {
  CALI_DEBUG("ARP lookup failed for " IP_FMT " dev %d\n",
    debug_ip(state->ip_dst), iface);
```

```
  goto skip_redir_ifindex;
  }

  /* Revalidate the access to the packet */
  skb_refresh_start_end(ctx);
  if (ctx->data_start + sizeof(struct ethhdr) > ctx->data_end) {
   deny_reason(ctx, CALI_REASON_SHORT);
   CALI_DEBUG("Too short\n");
   goto deny;
  }

  /* Patch in the MAC addresses that should be set on the next hop. */
  struct ethhdr *eth_hdr = ctx->data_start;
  __builtin_memcpy(&eth_hdr->h_dest, arpv->mac_dst, ETH_ALEN);
  __builtin_memcpy(&eth_hdr->h_source,
 arpv->mac_src, ETH_ALEN);

  rc = bpf_redirect(iface, 0);
  if (rc == TC_ACT_REDIRECT) {
   CALI_DEBUG("Redirect directly to interface (%d) succeeded.\n", iface);
   goto skip_fib;
  }

skip_redir_ifindex:
  CALI_DEBUG("Redirect directly to interface (%d) failed.\n", iface);
  /* fall through to FIB if enabled or the IP stack, don't give up yet. */
  rc = TC_ACT_UNSPEC;
#ifdef BPF_CORE_SUPPORTED
 } else if (CALI_F_FROM_HEP && bpf_core_enum_value_exists(enum bpf_func_id, BPF_FUNC_redirect_peer))
{
  bool redirect_peer = GLOBAL_FLAGS & CALI_GLOBALS_REDIRECT_PEER;

  if (redirect_peer && ct_result_rc(state->ct_result.rc) == CALI_CT_ESTABLISHED_BYPASS &&
   state->ct_result.ifindex_fwd != CT_INVALID_IFINDEX) {
   rc = bpf_redirect_peer(state->ct_result.ifindex_fwd, 0);
   if (rc == TC_ACT_REDIRECT) {
    CALI_DEBUG("Redirect to peer interface (%d) succeeded.\n", state->ct_result.ifindex_fwd);
    goto skip_fib;
   }
  }
#endif
 }

#if CALI_FIB_ENABLED
 /*
 Only do FIB for packets to be turned around at a HEP on HEP egress. */
 if (CALI_F_TO_HEP && !(ctx->state->flags & CALI_ST_CT_NP_LOOP)) {
  goto skip_fib;
```

```
 }

 // Try a short-circuit FIB lookup.
 if (fwd_fib(&ctx->fwd)) {
  /* Revalidate the access to the packet */
  if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
   deny_reason(ctx, CALI_REASON_SHORT);
   CALI_DEBUG("Too short\n");
   goto deny;
  }

  /* Since we are going to short circuit the IP stack on
   * forward, check if TTL is still alive. If not, let the
   * IP stack handle it. It was approved by policy, so it
   * is safe.
   */
  if ip_ttl_exceeded(ip_hdr(ctx)) {
   rc = TC_ACT_UNSPEC;
   goto cancel_fib;
  }

  *fib_params(ctx) = (struct bpf_fib_lookup) {
#ifdef IPVER6
   .family = 10, /* AF_INET6 */
#else
   .family = 2, /* AF_INET */
#endif
   .tot_len = 0,
   .ifindex = CALI_F_TO_HOST ? ctx->skb->ingress_ifindex : ctx->skb->ifindex,
   .l4_protocol = state->ip_proto,
  };

  if (state->ip_proto != IPPROTO_ICMP_46)
  {
   fib_params(ctx)->sport = bpf_htons(state->sport);
   fib_params(ctx)->dport = bpf_htons(state->dport);
  }

  /* set the ipv4 here, otherwise the ipv4/6 unions do not get
   * zeroed properly
   */

#ifdef IPVER6
  ipv6_addr_t_to_be32_4_ip(fib_params(ctx)->ipv6_src, &state->ip_src);
  ipv6_addr_t_to_be32_4_ip(fib_params(ctx)->ipv6_dst, &state->ip_dst);
#else
  fib_params(ctx)->ipv4_src = state->ip_src;
  fib_params(ctx)->ipv4_dst = state->ip_dst;
```

```
#endif

  CALI_DEBUG("FIB family=%d\n", fib_params(ctx)->family);
  CALI_DEBUG("FIB ifindex=%d\n", fib_params(ctx)->ifindex);
  CALI_DEBUG("FIB l4_protocol=%d\n", fib_params(ctx)->l4_protocol);
  CALI_DEBUG("FIB sport=%d\n", bpf_ntohs(fib_params(ctx)->sport));
  CALI_DEBUG("FIB dport=%d\n", bpf_ntohs(fib_params(ctx)->dport));
#ifdef IPVER6
#else
  CALI_DEBUG("FIB ipv4_src=%x\n", bpf_ntohl(fib_params(ctx)->ipv4_src));
  CALI_DEBUG("FIB ipv4_dst=%x\n", bpf_ntohl(fib_params(ctx)->ipv4_dst));
#endif

  CALI_DEBUG("Traffic is towards the host
 namespace, doing Linux FIB lookup\n");
  rc = bpf_fib_lookup(ctx->skb, fib_params(ctx), sizeof(struct bpf_fib_lookup), ctx->fwd.fib_flags);
  switch (rc) {
  case 0:
   CALI_DEBUG("FIB lookup succeeded - with neigh\n");
   if (!fib_approve(ctx, fib_params(ctx)->ifindex)) {
    reason = CALI_REASON_WEP_NOT_READY;
    goto deny;
   }

   // Update the MACs.
   struct ethhdr *eth_hdr = ctx->data_start;
   __builtin_memcpy(&eth_hdr->h_source, fib_params(ctx)->smac, sizeof(eth_hdr->h_source));
   __builtin_memcpy(&eth_hdr->h_dest, fib_params(ctx)->dmac, sizeof(eth_hdr->h_dest));

   // Redirect the packet.
   CALI_DEBUG("Got Linux FIB hit, redirecting to iface %d.\n", fib_params(ctx)->ifindex);
   rc = bpf_redirect(fib_params(ctx)->ifindex, 0);

   break;

#ifdef BPF_CORE_SUPPORTED
  case BPF_FIB_LKUP_RET_NO_NEIGH:
   if (bpf_core_enum_value_exists(enum bpf_func_id, BPF_FUNC_redirect_neigh)) {
#ifdef IPVER6
    CALI_DEBUG("FIB lookup succeeded - no neigh - gw\n");
#else
    CALI_DEBUG("FIB
 lookup succeeded - no neigh - gw %x\n", bpf_ntohl(fib_params(ctx)->ipv4_dst));
#endif

    if (!fib_approve(ctx, fib_params(ctx)->ifindex)) {
     reason = CALI_REASON_WEP_NOT_READY;
     goto deny;
```

```
    }

    struct bpf_redir_neigh nh_params = {};

    nh_params.nh_family = fib_params(ctx)->family;
#ifdef IPVER6
    __builtin_memcpy(nh_params.ipv6_nh, fib_params(ctx)->ipv6_dst, sizeof(nh_params.ipv6_nh));
#else
    nh_params.ipv4_nh = fib_params(ctx)->ipv4_dst;
#endif

    CALI_DEBUG("Got Linux FIB hit, redirecting to iface %d.\n", fib_params(ctx)->ifindex);
    rc = bpf_redirect_neigh(fib_params(ctx)->ifindex, &nh_params, sizeof(nh_params), 0);
    break;
   } else {
    /* fallthrough to handling error */
   }
#endif /* BPF_CORE_SUPPORTED */

  default:
   if (rc < 0) {
    CALI_DEBUG("FIB lookup failed (bad input): %d.\n", rc);
    rc = TC_ACT_UNSPEC;
   } else {
    CALI_DEBUG("FIB lookup failed (FIB problem): %d.\n", rc);
    rc = TC_ACT_UNSPEC;
   }

   break;
  }

  /* now we
 know we will bypass IP stack and ip->ttl > 1, decrement it! */
  if (rc == TC_ACT_REDIRECT) {
#ifdef IPVER6
   ip_hdr(ctx)->hop_limit--;
#else
   ip_dec_ttl(ip_hdr(ctx));
#endif
  }
 }

cancel_fib:
#endif /* CALI_FIB_ENABLED */
 if (ctx->state->flags & CALI_ST_CT_NP_LOOP) {
  __u32 mark = CALI_SKB_MARK_SEEN;

  if (rc != TC_ACT_REDIRECT /* no FIB or failed */ ) {
```

```
 CALI_DEBUG("No FIB or failed, redirect to NATIF.\n");
 __u32 iface = NATIN_IFACE;

 struct arp_key arpk = {
  .ifindex = iface,
 };

 ip_set_void(arpk.ip);

 struct arp_value *arpv = cali_arp_lookup_elem(&arpk);
 if (!arpv) {
  ctx->fwd.reason = CALI_REASON_NATIFACE;
  CALI_DEBUG("ARP lookup failed for " IP_FMT " dev %d\n",
    debug_ip(state->ip_dst), iface);
  goto deny;
 }

 /* Revalidate the access to the packet */
 skb_refresh_start_end(ctx);
 if (ctx->data_start + sizeof(struct ethhdr) > ctx->data_end) {
  ctx->fwd.reason = CALI_REASON_SHORT;
  CALI_DEBUG("Too short\n");
  goto deny;
 }

 /*
Patch in the MAC addresses that should be set on the next hop. */
 struct ethhdr *eth_hdr = ctx->data_start;
 __builtin_memcpy(&eth_hdr->h_dest, arpv->mac_dst, ETH_ALEN);
 __builtin_memcpy(&eth_hdr->h_source, arpv->mac_src, ETH_ALEN);

 rc = bpf_redirect(iface, 0);
 if (rc != TC_ACT_REDIRECT) {
  ctx->fwd.reason = CALI_REASON_NATIFACE;
  CALI_DEBUG("Redirect directly to bpfnatin failed.\n");
  goto deny;
 }

 CALI_DEBUG("Redirect directly to interface bpfnatin succeeded.\n");

 mark = CALI_SKB_MARK_BYPASS;

 if (ctx->state->flags & CALI_ST_CT_NP_REMOTE) {
  mark = CALI_SKB_MARK_BYPASS_FWD;
 }
}

CALI_DEBUG("Setting mark to 0x%x\n", mark);
```

```
 skb_set_mark(ctx->skb, mark);
 }

skip_fib:

 if (CALI_F_TO_HOST) {
  /* Packet is towards host namespace, mark it so that downstream
   * programs know that they're not the first to see the packet.
   */
  ctx->fwd.mark |=  CALI_SKB_MARK_SEEN;
  if (ctx->state->ct_result.flags & CALI_CT_FLAG_EXT_LOCAL)
  {
   CALI_DEBUG("To host marked with FLAG_EXT_LOCAL\n");
   ctx->fwd.mark |= EXT_TO_SVC_MARK;
   if (CALI_F_FROM_WEP && EXT_TO_SVC_MARK) {
    /* needs to go via normal routing unless we have access
     * to BPF_FIB_LOOKUP_MARK in kernel 6.10+
     */
    rc = TC_ACT_UNSPEC;
   }
  }

  if (CALI_F_NAT_IF) {
   /* We mark the packet so that next iface knows, it went through
    * bpfnatout - if it gets (S)NATed, a new connection is created
    * and we know that returning packets must go via bpfnatout again.
    */
   ctx->fwd.mark |= CALI_SKB_MARK_FROM_NAT_IFACE_OUT;
   CALI_DEBUG("marking CALI_SKB_MARK_FROM_NAT_IFACE_OUT\n");
  }

  if (ct_result_is_related(state->ct_result.rc)) {
   CALI_DEBUG("Related traffic, marking with CALI_SKB_MARK_RELATED_RESOLVED\n");
   ctx->fwd.mark |= CALI_SKB_MARK_RELATED_RESOLVED;
  }

  CALI_DEBUG("Traffic is towards host namespace, marking with 0x%x.\n", ctx->fwd.mark);

  /* FIXME: this ignores the mask that we should be using.
   * However, if we mask
 off the bits, then clang spots that it
   * can do a 16-bit store instead of a 32-bit load/modify/store,
   * which trips up the validator.
   */
  skb_set_mark(ctx->skb, ctx->fwd.mark); /* make sure that each pkt has SEEN mark */
 }

 if (CALI_LOG_LEVEL >= CALI_LOG_LEVEL_INFO) {
```

```
  __u64 prog_end_time = bpf_ktime_get_ns();
  CALI_INFO("Final result=ALLOW (%d). Program execution time: %lluns\n",
    reason, prog_end_time-state->prog_start_time);
 }

 return rc;

deny:
 if (CALI_LOG_LEVEL >= CALI_LOG_LEVEL_INFO) {
  __u64 prog_end_time = bpf_ktime_get_ns();
  CALI_INFO("Final result=DENY (%x). Program execution time: %lluns\n",
    reason, prog_end_time-state->prog_start_time);
 }

 return TC_ACT_SHOT;
}

#endif /* __CALI_FIB_H__ */
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_BPF_TC_H__
#define __CALI_BPF_TC_H__

#include "types.h"

static CALI_BPF_INLINE int calico_tc(struct __sk_buff *skb);

static CALI_BPF_INLINE struct fwd calico_tc_skb_accepted(struct cali_tc_ctx *ctx);

static CALI_BPF_INLINE int pre_policy_processing(struct cali_tc_ctx *ctx);
static CALI_BPF_INLINE void calico_tc_process_ct_lookup(struct cali_tc_ctx *ctx);

int parse_packet(struct __sk_buff *skb, struct cali_tc_ctx *ctx);

#endif /* __CALI_BPF_TC_H__ */
<picture>
 <source media="(prefers-color-scheme: dark)" srcset="assets/libbpf-logo-sideways-darkbg.png" width="40%">
 <img src="assets/libbpf-logo-sideways.png" width="40%">
</picture>

Libbpf sync
===========

Libbpf *authoritative source code* is developed as part of [bpf-next Linux source
tree](https://kernel.googlesource.com/pub/scm/linux/kernel/git/bpf/bpf-next) under
`tools/lib/bpf` subdirectory and is periodically synced to Github.
```

Most of the mundane mechanical things like bpf and bpf-next tree merge, Git history transformation, cherry-picking relevant commits, re-generating auto-generated headers, etc. are taken care by [sync-kernel.sh script](https://github.com/libbpf/libbpf/blob/master/scripts/sync-kernel.sh). But occasionally human needs to do few extra things to make everything work nicely.

This document goes over the process of syncing libbpf sources from Linux repo to this Github repository. Feel free to contribute fixes and additions if you run into new problems not
 outlined here.

Setup expectations

Sync script has particular expectation of upstream Linux repo setup. It expects that current HEAD of that repo points to bpf-next's master branch and that there is a separate local branch pointing to bpf tree's master branch. This is important, as the script will automatically merge their histories for the purpose of libbpf sync.

Below, we assume that Linux repo is located at `~/linux`, it's current head is at latest `bpf-next/master`, and libbpf's Github repo is located at `~/libbpf`, checked out to latest commit on `master` branch. It doesn't matter from where to run `sync-kernel.sh` script, but we'll be running it from inside `~/libbpf`.

```
$ cd ~/linux && git remote -v | grep -E '^(bpf|bpf-next)'
bpf     https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git (fetch)
bpf     ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf.git
(push)
bpf-next
https://git.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git
 (fetch)
bpf-next
ssh://git@gitolite.kernel.org/pub/scm/linux/kernel/git/bpf/bpf-next.git (push)
$ git branch -vv | grep -E '^? (master|bpf-master)'
* bpf-master                    2d311f480b52 [bpf/master] riscv, bpf: Fix patch_text implicit declaration
 master                        c8ee37bde402 [bpf-next/master] libbpf: Fix bpf_xdp_query() in old kernels
$ git checkout bpf-master && git pull && git checkout master && git pull
...
$ git log --oneline -n1
c8ee37bde402 (HEAD -> master, bpf-next/master) libbpf: Fix bpf_xdp_query() in old kernels
$ cd ~/libbpf && git checkout master && git pull
Your branch is up to date with 'libbpf/master'.
Already up to date.
```

```

Running setup script
--------------------

First step is to always run `sync-kernel.sh` script. It expects three arguments:

```
$ scripts/sync-kernel.sh <libbpf-repo> <kernel-repo> <bpf-branch>
```

Note, that we'll store script's entire output in `/tmp/libbpf-sync.txt` and
put it into PR summary later
 on. **Please store scripts output and include it
in PR summary for others to check for anything unexpected and suspicious.**

```
$ scripts/sync-kernel.sh ~/libbpf ~/linux bpf-master | tee /tmp/libbpf-sync.txt
Dumping existing libbpf commit signatures...
WORKDIR:          /home/andriin/libbpf
LINUX REPO:       /home/andriin/linux
LIBBPF REPO:      /home/andriin/libbpf
...
```

Most of the time this will go very uneventful. One expected case when sync
script might require user intervention is if `bpf` tree has some libbpf fixes,
which is nowadays not a very frequent occurence. But if that happens, script
will show you a diff between expected state as of latest bpf-next and synced
Github repo state. And will ask if these changes look good. Please use your
best judgement to verify that differences are indeed from expected `bpf` tree
fixes. E.g., it might look like below:

```
Comparing list of files...
Comparing file contents...
--- /home/andriin/linux/include/uapi/linux/netdev.h     2023-02-27
 16:54:42.270583372 -0800
+++ /home/andriin/libbpf/include/uapi/linux/netdev.h    2023-02-27 16:54:34.615530796 -0800
@@ -19,7 +19,7 @@
 * @NETDEV_XDP_ACT_XSK_ZEROCOPY: This feature informs if netdev supports AF_XDP
 *   in zero copy mode.
 * @NETDEV_XDP_ACT_HW_OFFLOAD: This feature informs if netdev supports XDP hw
- *   oflloading.
+ *   offloading.
 * @NETDEV_XDP_ACT_RX_SG: This feature informs if netdev implements non-linear
 *   XDP buffer support in the driver napi callback.
 * @NETDEV_XDP_ACT_NDO_XMIT_SG: This feature informs if netdev implements
```
```

/home/andriin/linux/include/uapi/linux/netdev.h and /home/andriin/libbpf/include/uapi/linux/netdev.h are different!
Unfortunately, there are some inconsistencies, please double check.
Does everything look good? [y/N]:
```

If it looks sensible and expected, type `y` and script will proceed.

If sync is successful, your `~/linux` repo will be left in original state on
the original HEAD commit. `~/libbpf` repo will now be on a
 new branch, named
`libbpf-sync-<timestamp>` (e.g., `libbpf-sync-2023-02-28T00-53-40.072Z`).

Push this branch into your fork of `libbpf/libbpf` Github repo and create a PR:

```
$ git push --set-upstream origin libbpf-sync-2023-02-28T00-53-40.072Z
Enumerating objects: 130, done.
Counting objects: 100% (115/115), done.
Delta compression using up to 80 threads
Compressing objects: 100% (28/28), done.
Writing objects: 100% (32/32), 5.57 KiB | 1.86 MiB/s, done.
Total 32 (delta 21), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (21/21), completed with 9 local objects.
remote:
remote: Create a pull request for 'libbpf-sync-2023-02-28T00-53-40.072Z' on GitHub by visiting:
remote:      https://github.com/anakryiko/libbpf/pull/new/libbpf-sync-2023-02-28T00-53-40.072Z
remote:
To github.com:anakryiko/libbpf.git
* [new branch]              libbpf-sync-2023-02-28T00-53-40.072Z -> libbpf-sync-2023-02-28T00-53-40.072Z
Branch 'libbpf-sync-2023-02-28T00-53-40.072Z' set up to track
 remote branch 'libbpf-sync-2023-02-28T00-53-40.072Z' from 'origin'.
```

**Please, adjust PR name to have a properly looking timestamp. Libbpf
maintainers will be very thankful for that!**

By default Github will turn above branch name into PR with subject "Libbpf sync
2023 02 28 t00 53 40.072 z". Please fix this into a proper timestamp, e.g.:
"Libbpf sync 2023-02-28T00:53:40.072Z". Thank you!

**Please don't forget to paste contents of /tmp/libbpf-sync.txt into PR
summary!**

Once PR is created, libbpf CI will run a bunch of tests to check that
everything is good. In simple cases that would be all you'd need to do. In more
complicated cases some extra adjustments might be necessary.

Please, keep naming and style consistent. Prefix CI-related fixes with `ci: `
```

prefix. If you had to modify sync script, prefix it with `sync: `. Also make
sure that each such commit has `Signed-off-by: Your Full Name <your@email.com>`,
just like you'd do that for Linux upstream patch. Libbpf closely
follows kernel
conventions and styling, so please help maintaining that.

Including new sources

If entirely new source files (typically `*.c`) were added to the library in the
kernel repository, it may be necessary to add these to the build system
manually (you may notice linker errors otherwise), because the script cannot
handle such changes automatically. To that end, edit `src/Makefile` as
necessary. Commit
[c2495832ced4](https://github.com/libbpf/libbpf/commit/c2495832ced4239bcd376b9954db38a6addd89ca)
is an example of how to go about doing that.

Similarly, if new public API header files were added, the `Makefile` will need
to be adjusted as well.

Updating allow/deny lists

Libbpf CI intentionally runs a subset of latest BPF selftests on old kernel
(4.9 and 5.5, currently). It happens from time to time that some tests that
previously were successfully running on old kernels now don't, typically due to
reliance on some freshly added
kernel feature. It might look something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4206303272/jobs/7299609578#step:4:2733):

```
All error logs:
serial_test_xdp_info:FAIL:get_xdp_none errno=2
#283     xdp_info:FAIL
Summary: 49/166 PASSED, 5 SKIPPED, 1 FAILED
```

In such case we can either work with upstream to fix test to be compatible with
old kernels, or we'll have to add a test into a denylist (or remove it from
allowlist, like was [done](https://github.com/libbpf/libbpf/commit/ea284299025bf85b85b4923191de6463cd43ccd6)
for the case above).

```
$ find . -name '*LIST*'
./ci/vmtest/configs/ALLOWLIST-4.9.0
./ci/vmtest/configs/DENYLIST-5.5.0
./ci/vmtest/configs/DENYLIST-latest.s390x
./ci/vmtest/configs/DENYLIST-latest
```

./ci/vmtest/configs/ALLOWLIST-5.5.0
```

Please determine which tests need to be added/removed from which list. And then
add that as a separate commit. **Please keep using the same branch name, so
that the same PR can be updated.** There
 is no need to open new PRs for each
such fix.

Regenerating vmlinux.h header
---

To compile latest BPF selftests against old kernels, we check in pre-generated
[vmlinux.h](https://github.com/libbpf/libbpf/blob/master/.github/actions/build-selftests/vmlinux.h)
header file, located at `.github/actions/build-selftests/vmlinux.h`, which
contains type definitions from latest upstream kernel. When after libbpf sync
upstream BPF selftests require new kernel types, we'd need to regenerate
`vmlinux.h` and check it in as well.

This will looks something like this in [CI
logs](https://github.com/libbpf/libbpf/actions/runs/4198939244/jobs/7283214243#step:4:1903):

```
 In file included from progs/test_spin_lock_fail.c:5:
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:73:53: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_remove(struct
 bpf_rb_root *root,
                                                ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:81:35: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern void bpf_rbtree_add(struct bpf_rb_root *root, struct bpf_rb_node *node,
                                   ^
 /home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/bpf_experimental.h:90:52: error: declaration of
'struct bpf_rb_root' will not be visible outside of this function [-Werror,-Wvisibility]
 extern struct bpf_rb_node *bpf_rbtree_first(struct bpf_rb_root *root) __ksym;
                                                ^
 3 errors generated.
 make: *** [Makefile:572:
/home/runner/work/libbpf/libbpf/.kernel/tools/testing/selftests/bpf/test_spin_lock_fail.bpf.o] Error 1
 make: *** Waiting for unfinished jobs....
 Error: Process completed with exit code 2.
```

You'll
 need to build latest upstream kernel from `bpf-next` tree, using BPF
selftest configs. Concat arch-agnostic and arch-specific configs, build kernel,
then use bpftool to dump `vmlinux.h`:
```

```
$ cd ~/linux
$ cat tools/testing/selftests/bpf/config \
  tools/testing/selftests/bpf/config.x86_64 > .config
$ make -j$(nproc) olddefconfig all
...
$ bpftool btf dump file ~/linux/vmlinux format c > ~/libbpf/.github/actions/build-selftests/vmlinux.h
$ cd ~/libbpf && git add . && git commit -s
```

Check in generated `vmlinux.h`, don't forget to use `ci: ` commit prefix, add
it on top of sync commits. Push to Github and let libbpf CI do the checking for
you. See [this commit](https://github.com/libbpf/libbpf/commit/34212c94a64df8eeb1dd5d064630a65e1dfd4c20)
for reference.

Troubleshooting

If something goes wrong and sync script exits early or is terminated early by
user, you might end up with `~/linux` repo on temporary sync-related branch.
Don't worry, though, sync script never
 destroys repo state, it follows
"copy-on-write" philosophy and creates new branches where necessary. So it's
very easy to restore previous state. So if anything goes wrong, it's easy to
start fresh:

```
$ git branch | grep -E 'libbpf-.*Z'
 libbpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-baseline-2023-02-28T00-43-35.146Z
 libbpf-bpf-tip-2023-02-28T00-43-35.146Z
 libbpf-squash-base-2023-02-28T00-43-35.146Z
* libbpf-squash-tip-2023-02-28T00-43-35.146Z
$ git cherry-pick --abort
$ git checkout master && git branch | grep -E 'libbpf-.*Z' | xargs git br -D
Switched to branch 'master'
Your branch is up to date with 'bpf-next/master'.
Deleted branch libbpf-baseline-2023-02-28T00-43-35.146Z (was 951bce29c898).
Deleted branch libbpf-bpf-baseline-2023-02-28T00-43-35.146Z (was 3a70e0d4c9d7).
Deleted branch libbpf-bpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
Deleted branch libbpf-squash-base-2023-02-28T00-43-35.146Z (was 957f109ef883).
Deleted branch libbpf-squash-tip-2023-02-28T00-43-35.146Z
 (was be66130d2339).
Deleted branch libbpf-tip-2023-02-28T00-43-35.146Z (was 2d311f480b52).
```

You might need to do the same for your `~/libbpf` repo sometimes, depending at

which stage sync script was terminated.

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```
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef _TOOLS_LINUX_RING_BUFFER_H_
#define _TOOLS_LINUX_RING_BUFFER_H_

#include <linux/compiler.h>

static inline __u64 ring_buffer_read_head(struct perf_event_mmap_page *base)
{
```

```
 return smp_load_acquire(&base->data_head);
}

static inline void ring_buffer_write_tail(struct perf_event_mmap_page *base,
	__u64 tail)
{
 smp_store_release(&base->data_tail, tail);
}

#endif /* _TOOLS_LINUX_RING_BUFFER_H_ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

#ifndef __LINUX_OVERFLOW_H
#define __LINUX_OVERFLOW_H

#define is_signed_type(type) (((type)(-1)) < (type)1)
#define __type_half_max(type) ((type)1 << (8*sizeof(type) - 1 - is_signed_type(type)))
#define type_max(T) ((T)((__type_half_max(T) - 1) + __type_half_max(T)))
#define type_min(T) ((T)((T)-type_max(T)-(T)1))

#ifndef unlikely
#define unlikely(x) __builtin_expect(!!(x), 0)
#endif

#ifdef __GNUC__
#define GCC_VERSION (__GNUC__ * 10000		\
		+ __GNUC_MINOR__ * 100	\
		+ __GNUC_PATCHLEVEL__)
#if GCC_VERSION >= 50100
#define COMPILER_HAS_GENERIC_BUILTIN_OVERFLOW 1
#endif
#endif

#ifdef COMPILER_HAS_GENERIC_BUILTIN_OVERFLOW

#define check_mul_overflow(a, b, d) ({	\
 typeof(a) __a = (a);	\
 typeof(b) __b = (b);	\
 typeof(d) __d = (d);	\
 (void) (&__a == &__b);	\
 (void) (&__a == __d);	\
 __builtin_mul_overflow(__a, __b, __d); \
})

#else

/*
* If one of a or b is a compile-time
```

```
 constant, this avoids a division.
*/
#define __unsigned_mul_overflow(a, b, d) ({  \
 typeof(a) __a = (a);    \
 typeof(b) __b = (b);    \
 typeof(d) __d = (d);    \
 (void) (&__a == &__b);    \
 (void) (&__a == __d);    \
 *__d = __a * __b;    \
 __builtin_constant_p(__b) ?   \
   __b > 0 && __a > type_max(typeof(__a)) / __b : \
   __a > 0 && __b > type_max(typeof(__b)) / __a;  \
})

/*
* Signed multiplication is rather hard. gcc always follows C99, so
* division is truncated towards 0. This means that we can write the
* overflow check like this:
*
* (a > 0 && (b > MAX/a || b < MIN/a)) ||
* (a < -1 && (b > MIN/a || b < MAX/a) ||
* (a == -1 && b == MIN)
*
* The redundant casts of -1 are to silence an annoying -Wtype-limits
* (included in -Wextra) warning: When the type is u8 or u16, the
* __b_c_e in check_mul_overflow obviously selects
* __unsigned_mul_overflow, but unfortunately gcc still parses this
* code and warns about the limited range of __b.
*/

#define
 __signed_mul_overflow(a, b, d) ({    \
 typeof(a) __a = (a);      \
 typeof(b) __b = (b);      \
 typeof(d) __d = (d);      \
 typeof(a) __tmax = type_max(typeof(a));    \
 typeof(a) __tmin = type_min(typeof(a));    \
 (void) (&__a == &__b);      \
 (void) (&__a == __d);      \
 *__d = (__u64)__a * (__u64)__b;     \
 (__b > 0   && (__a > __tmax/__b || __a < __tmin/__b)) || \
 (__b < (typeof(__b))-1  && (__a > __tmin/__b || __a < __tmax/__b)) || \
 (__b == (typeof(__b))-1 && __a == __tmin);   \
})

#define check_mul_overflow(a, b, d)     \
 __builtin_choose_expr(is_signed_type(typeof(a)),  \
   __signed_mul_overflow(a, b, d),   \
```

```
  __unsigned_mul_overflow(a, b, d))


#endif /* COMPILER_HAS_GENERIC_BUILTIN_OVERFLOW */

#endif
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

/*
* Internal libbpf helpers.
*
* Copyright (c) 2019 Facebook
*/

#ifndef __LIBBPF_LIBBPF_INTERNAL_H
#define __LIBBPF_LIBBPF_INTERNAL_H

#include <stdlib.h>
#include <limits.h>
#include <errno.h>
#include <linux/err.h>
#include <fcntl.h>
#include <unistd.h>
#include <sys/syscall.h>
#include <libelf.h>
#include "relo_core.h"

/* Android's libc doesn't support AT_EACCESS in faccessat() implementation
* ([0]), and just returns -EINVAL even if file exists and is accessible.
* See [1] for issues caused by this.
*
* So just redefine it to 0 on Android.
*
* [0] https://android.googlesource.com/platform/bionic/+/refs/heads/android13-release/libc/bionic/faccessat.cpp#50
* [1] https://github.com/libbpf/libbpf-bootstrap/issues/250#issuecomment-1911324250
*/
#ifdef __ANDROID__
#undef AT_EACCESS
#define AT_EACCESS 0
#endif

/* make sure libbpf doesn't use kernel-only integer typedefs */
#pragma GCC poison u8 u16 u32 u64 s8 s16 s32
 s64

/* prevent accidental re-addition of reallocarray() */
#pragma GCC poison reallocarray
```

```
#include "libbpf.h"
#include "btf.h"

#ifndef EM_BPF
#define EM_BPF 247
#endif

#ifndef R_BPF_64_64
#define R_BPF_64_64 1
#endif
#ifndef R_BPF_64_ABS64
#define R_BPF_64_ABS64 2
#endif
#ifndef R_BPF_64_ABS32
#define R_BPF_64_ABS32 3
#endif
#ifndef R_BPF_64_32
#define R_BPF_64_32 10
#endif

#ifndef SHT_LLVM_ADDRSIG
#define SHT_LLVM_ADDRSIG 0x6FFF4C03
#endif

/* if libelf is old and doesn't support mmap(), fall back to read() */
#ifndef ELF_C_READ_MMAP
#define ELF_C_READ_MMAP ELF_C_READ
#endif

/* Older libelf all end up in this expression, for both 32 and 64 bit */
#ifndef ELF64_ST_VISIBILITY
#define ELF64_ST_VISIBILITY(o) ((o) & 0x03)
#endif

#define BTF_INFO_ENC(kind, kind_flag, vlen) \
 ((!!(kind_flag) << 31) | ((kind) << 24) | ((vlen) & BTF_MAX_VLEN))
#define BTF_TYPE_ENC(name, info, size_or_type) (name), (info), (size_or_type)
#define BTF_INT_ENC(encoding, bits_offset, nr_bits) \
 ((encoding)
 << 24 | (bits_offset) << 16 | (nr_bits))
#define BTF_TYPE_INT_ENC(name, encoding, bits_offset, bits, sz) \
 BTF_TYPE_ENC(name, BTF_INFO_ENC(BTF_KIND_INT, 0, 0), sz), \
 BTF_INT_ENC(encoding, bits_offset, bits)
#define BTF_MEMBER_ENC(name, type, bits_offset) (name), (type), (bits_offset)
#define BTF_PARAM_ENC(name, type) (name), (type)
#define BTF_VAR_SECINFO_ENC(type, offset, size) (type), (offset), (size)
#define BTF_TYPE_FLOAT_ENC(name, sz) \
 BTF_TYPE_ENC(name, BTF_INFO_ENC(BTF_KIND_FLOAT, 0, 0), sz)
```

```
#define BTF_TYPE_DECL_TAG_ENC(value, type, component_idx) \
 BTF_TYPE_ENC(value, BTF_INFO_ENC(BTF_KIND_DECL_TAG, 0, 0), type), (component_idx)
#define BTF_TYPE_TYPE_TAG_ENC(value, type) \
 BTF_TYPE_ENC(value, BTF_INFO_ENC(BTF_KIND_TYPE_TAG, 0, 0), type)

#ifndef likely
#define likely(x) __builtin_expect(!!(x), 1)
#endif
#ifndef unlikely
#define unlikely(x) __builtin_expect(!!(x), 0)
#endif
#ifndef min
# define min(x, y) ((x) < (y) ? (x) : (y))
#endif
#ifndef max
# define max(x, y) ((x)
 < (y) ? (y) : (x))
#endif
#ifndef offsetofend
# define offsetofend(TYPE, FIELD) \
 (offsetof(TYPE, FIELD) + sizeof(((TYPE *)0)->FIELD))
#endif
#ifndef __alias
#define __alias(symbol) __attribute__((alias(#symbol)))
#endif

/* Check whether a string `str` has prefix `pfx`, regardless if `pfx` is
* a string literal known at compilation time or char * pointer known only at
* runtime.
*/
#define str_has_pfx(str, pfx) \
 (strncmp(str, pfx, __builtin_constant_p(pfx) ? sizeof(pfx) - 1 : strlen(pfx)) == 0)

/* suffix check */
static inline bool str_has_sfx(const char *str, const char *sfx)
{
 size_t str_len = strlen(str);
 size_t sfx_len = strlen(sfx);

 if (sfx_len > str_len)
  return false;
 return strcmp(str + str_len - sfx_len, sfx) == 0;
}

/* Symbol versioning is different between static and shared library.
* Properly versioned symbols are needed for shared library, but
* only the symbol of the new version is needed for static library.
* Starting with GNU C 10, use symver attribute
```

```
 instead of .symver assembler
* directive, which works better with GCC LTO builds.
*/
#if defined(SHARED) && defined(__GNUC__) && __GNUC__ >= 10

#define DEFAULT_VERSION(internal_name, api_name, version) \
 __attribute__((symver(#api_name "@@" #version)))
#define COMPAT_VERSION(internal_name, api_name, version) \
 __attribute__((symver(#api_name "@" #version)))

#elif defined(SHARED)

#define COMPAT_VERSION(internal_name, api_name, version) \
 asm(".symver " #internal_name "," #api_name "@" #version);
#define DEFAULT_VERSION(internal_name, api_name, version) \
 asm(".symver " #internal_name "," #api_name "@@" #version);

#else /* !SHARED */

#define COMPAT_VERSION(internal_name, api_name, version)
#define DEFAULT_VERSION(internal_name, api_name, version) \
 extern typeof(internal_name) api_name \
 __attribute__((alias(#internal_name)));

#endif

extern void libbpf_print(enum libbpf_print_level level,
    const char *format, ...)
 __attribute__((format(printf, 2, 3)));

#define __pr(level,
 fmt, ...) \
do {    \
 libbpf_print(level, "libbpf: " fmt, ##__VA_ARGS__); \
} while (0)

#define pr_warn(fmt, ...) __pr(LIBBPF_WARN, fmt, ##__VA_ARGS__)
#define pr_info(fmt, ...) __pr(LIBBPF_INFO, fmt, ##__VA_ARGS__)
#define pr_debug(fmt, ...) __pr(LIBBPF_DEBUG, fmt, ##__VA_ARGS__)

#ifndef __has_builtin
#define __has_builtin(x) 0
#endif

struct bpf_link {
 int (*detach)(struct bpf_link *link);
 void (*dealloc)(struct bpf_link *link);
 char *pin_path;  /* NULL, if not pinned */
```

```
 int fd;   /* hook FD, -1 if not applicable */
 bool disconnected;
};

/*
* Re-implement glibc's reallocarray() for libbpf internal-only use.
* reallocarray(), unfortunately, is not available in all versions of glibc,
* so requires extra feature detection and using reallocarray() stub from
* <tools/libc_compat.h> and COMPAT_NEED_REALLOCARRAY. All this complicates
* build of libbpf unnecessarily and is just a maintenance burden. Instead,
* it's trivial to implement libbpf-specific internal version
 and use it
* throughout libbpf.
*/
static inline void *libbpf_reallocarray(void *ptr, size_t nmemb, size_t size)
{
 size_t total;

#if __has_builtin(__builtin_mul_overflow)
 if (unlikely(__builtin_mul_overflow(nmemb, size, &total)))
  return NULL;
#else
 if (size == 0 || nmemb > ULONG_MAX / size)
  return NULL;
 total = nmemb * size;
#endif
 return realloc(ptr, total);
}

/* Copy up to sz - 1 bytes from zero-terminated src string and ensure that dst
* is zero-terminated string no matter what (unless sz == 0, in which case
* it's a no-op). It's conceptually close to FreeBSD's strlcpy(), but differs
* in what is returned. Given this is internal helper, it's trivial to extend
* this, when necessary. Use this instead of strncpy inside libbpf source code.
*/
static inline void libbpf_strlcpy(char *dst, const char *src, size_t sz)
{
 size_t i;

 if (sz == 0)
  return;

 sz--;
 for (i = 0; i < sz && src[i]; i++)
  dst[i] = src[i];
 dst[i] = '\0';
}
```

```
__u32 get_kernel_version(void);

struct
 btf;
struct btf_type;

struct btf_type *btf_type_by_id(const struct btf *btf, __u32 type_id);
const char *btf_kind_str(const struct btf_type *t);
const struct btf_type *skip_mods_and_typedefs(const struct btf *btf, __u32 id, __u32 *res_id);

static inline enum btf_func_linkage btf_func_linkage(const struct btf_type *t)
{
 return (enum btf_func_linkage)(int)btf_vlen(t);
}

static inline __u32 btf_type_info(int kind, int vlen, int kflag)
{
 return (kflag << 31) | (kind << 24) | vlen;
}

enum map_def_parts {
 MAP_DEF_MAP_TYPE = 0x001,
 MAP_DEF_KEY_TYPE = 0x002,
 MAP_DEF_KEY_SIZE = 0x004,
 MAP_DEF_VALUE_TYPE = 0x008,
 MAP_DEF_VALUE_SIZE = 0x010,
 MAP_DEF_MAX_ENTRIES = 0x020,
 MAP_DEF_MAP_FLAGS = 0x040,
 MAP_DEF_NUMA_NODE = 0x080,
 MAP_DEF_PINNING  = 0x100,
 MAP_DEF_INNER_MAP = 0x200,
 MAP_DEF_MAP_EXTRA = 0x400,

 MAP_DEF_ALL  = 0x7ff, /* combination of all above */
};

struct btf_map_def {
 enum map_def_parts parts;
 __u32 map_type;
 __u32 key_type_id;
 __u32 key_size;
 __u32 value_type_id;
 __u32
 value_size;
 __u32 max_entries;
 __u32 map_flags;
 __u32 numa_node;
 __u32 pinning;
```

```
 __u64 map_extra;
};

int parse_btf_map_def(const char *map_name, struct btf *btf,
        const struct btf_type *def_t, bool strict,
        struct btf_map_def *map_def, struct btf_map_def *inner_def);

void *libbpf_add_mem(void **data, size_t *cap_cnt, size_t elem_sz,
       size_t cur_cnt, size_t max_cnt, size_t add_cnt);
int libbpf_ensure_mem(void **data, size_t *cap_cnt, size_t elem_sz, size_t need_cnt);

static inline bool libbpf_is_mem_zeroed(const char *p, ssize_t len)
{
 while (len > 0) {
  if (*p)
   return false;
  p++;
  len--;
 }
 return true;
}

static inline bool libbpf_validate_opts(const char *opts,
     size_t opts_sz, size_t user_sz,
     const char *type_name)
{
 if (user_sz < sizeof(size_t)) {
  pr_warn("%s size (%zu) is too small\n", type_name, user_sz);
  return false;
 }
 if (!libbpf_is_mem_zeroed(opts + opts_sz, (ssize_t)user_sz - opts_sz)) {
  pr_warn("%s has non-zero
 extra bytes\n", type_name);
  return false;
 }
 return true;
}

#define OPTS_VALID(opts, type)           \
 (!(opts) || libbpf_validate_opts((const char *)opts,        \
      offsetofend(struct type,       \
           type##__last_field),     \
      (opts)->sz, #type))
#define OPTS_HAS(opts, field) \
 ((opts) && opts->sz >= offsetofend(typeof(*(opts)), field))
#define OPTS_GET(opts, field, fallback_value) \
 (OPTS_HAS(opts, field) ? (opts)->field : fallback_value)
#define OPTS_SET(opts, field, value)  \
```

```
 do {     \
  if (OPTS_HAS(opts, field)) \
   (opts)->field = value; \
 } while (0)

#define OPTS_ZEROED(opts, last_nonzero_field)          \
({               \
 ssize_t __off = offsetofend(typeof(*(opts)), last_nonzero_field);     \
 !(opts) || libbpf_is_mem_zeroed((const void *)opts + __off,       \
     (opts)->sz - __off);        \
})

enum kern_feature_id {
 /* v4.14: kernel support for program & map names. */
 FEAT_PROG_NAME,
 /* v5.2: kernel support for global data sections.
 */
 FEAT_GLOBAL_DATA,
 /* BTF support */
 FEAT_BTF,
 /* BTF_KIND_FUNC and BTF_KIND_FUNC_PROTO support */
 FEAT_BTF_FUNC,
 /* BTF_KIND_VAR and BTF_KIND_DATASEC support */
 FEAT_BTF_DATASEC,
 /* BTF_FUNC_GLOBAL is supported */
 FEAT_BTF_GLOBAL_FUNC,
 /* BPF_F_MMAPABLE is supported for arrays */
 FEAT_ARRAY_MMAP,
 /* kernel support for expected_attach_type in BPF_PROG_LOAD */
 FEAT_EXP_ATTACH_TYPE,
 /* bpf_probe_read_{kernel,user}[_str] helpers */
 FEAT_PROBE_READ_KERN,
 /* BPF_PROG_BIND_MAP is supported */
 FEAT_PROG_BIND_MAP,
 /* Kernel support for module BTFs */
 FEAT_MODULE_BTF,
 /* BTF_KIND_FLOAT support */
 FEAT_BTF_FLOAT,
 /* BPF perf link support */
 FEAT_PERF_LINK,
 /* BTF_KIND_DECL_TAG support */
 FEAT_BTF_DECL_TAG,
 /* BTF_KIND_TYPE_TAG support */
 FEAT_BTF_TYPE_TAG,
 /* memcg-based accounting for BPF maps and progs */
 FEAT_MEMCG_ACCOUNT,
 /* BPF cookie (bpf_get_attach_cookie() BPF helper) support */
 FEAT_BPF_COOKIE,
```

```
 /* BTF_KIND_ENUM64 support and BTF_KIND_ENUM kflag support
 */
 FEAT_BTF_ENUM64,
 /* Kernel uses syscall wrapper (CONFIG_ARCH_HAS_SYSCALL_WRAPPER) */
 FEAT_SYSCALL_WRAPPER,
 /* BPF multi-uprobe link support */
 FEAT_UPROBE_MULTI_LINK,
 /* Kernel supports arg:ctx tag (__arg_ctx) for global subprogs natively */
 FEAT_ARG_CTX_TAG,
 /* Kernel supports '?' at the front of datasec names */
 FEAT_BTF_QMARK_DATASEC,
 __FEAT_CNT,
};

enum kern_feature_result {
 FEAT_UNKNOWN = 0,
 FEAT_SUPPORTED = 1,
 FEAT_MISSING = 2,
};

struct kern_feature_cache {
 enum kern_feature_result res[__FEAT_CNT];
 int token_fd;
};

bool feat_supported(struct kern_feature_cache *cache, enum kern_feature_id feat_id);
bool kernel_supports(const struct bpf_object *obj, enum kern_feature_id feat_id);

int probe_kern_syscall_wrapper(int token_fd);
int probe_memcg_account(int token_fd);
int bump_rlimit_memlock(void);

int parse_cpu_mask_str(const char *s, bool **mask, int *mask_sz);
int parse_cpu_mask_file(const char *fcpu, bool **mask, int *mask_sz);
int libbpf__load_raw_btf(const
 char *raw_types, size_t types_len,
    const char *str_sec, size_t str_len,
    int token_fd);
int btf_load_into_kernel(struct btf *btf,
    char *log_buf, size_t log_sz, __u32 log_level,
    int token_fd);

struct btf *btf_get_from_fd(int btf_fd, struct btf *base_btf);
void btf_get_kernel_prefix_kind(enum bpf_attach_type attach_type,
    const char **prefix, int *kind);

struct btf_ext_info {
 /*
```

```
 * info points to the individual info section (e.g. func_info and
 * line_info) from the .BTF.ext. It does not include the __u32 rec_size.
 */
 void *info;
 __u32 rec_size;
 __u32 len;
 /* optional (maintained internally by libbpf) mapping between .BTF.ext
  * section and corresponding ELF section. This is used to join
  * information like CO-RE relocation records with corresponding BPF
  * programs defined in ELF sections
  */
 __u32 *sec_idxs;
 int sec_cnt;
};

#define for_each_btf_ext_sec(seg, sec)     \
 for (sec = (seg)->info;      \
      (void *)sec < (seg)->info + (seg)->len;   \

     sec = (void *)sec + sizeof(struct btf_ext_info_sec) + \
     (seg)->rec_size * sec->num_info)

#define for_each_btf_ext_rec(seg, sec, i, rec)    \
 for (i = 0, rec = (void *)&(sec)->data;    \
      i < (sec)->num_info;     \
      i++, rec = (void *)rec + (seg)->rec_size)

/*
* The .BTF.ext ELF section layout defined as
*   struct btf_ext_header
*   func_info subsection
*
* The func_info subsection layout:
*   record size for struct bpf_func_info in the func_info subsection
*   struct btf_sec_func_info for section #1
*   a list of bpf_func_info records for section #1
*     where struct bpf_func_info mimics one in include/uapi/linux/bpf.h
*     but may not be identical
*   struct btf_sec_func_info for section #2
*   a list of bpf_func_info records for section #2
*   ......
*
* Note that the bpf_func_info record size in .BTF.ext may not
* be the same as the one defined in include/uapi/linux/bpf.h.
* The loader should ensure that record_size meets minimum
*
 requirement and pass the record as is to the kernel. The
* kernel will handle the func_info properly based on its contents.
```

```
*/
struct btf_ext_header {
 __u16 magic;
 __u8 version;
 __u8 flags;
 __u32 hdr_len;

 /* All offsets are in bytes relative to the end of this header */
 __u32 func_info_off;
 __u32 func_info_len;
 __u32 line_info_off;
 __u32 line_info_len;

 /* optional part of .BTF.ext header */
 __u32 core_relo_off;
 __u32 core_relo_len;
};

struct btf_ext {
 union {
  struct btf_ext_header *hdr;
  void *data;
 };
 struct btf_ext_info func_info;
 struct btf_ext_info line_info;
 struct btf_ext_info core_relo_info;
 __u32 data_size;
};

struct btf_ext_info_sec {
 __u32 sec_name_off;
 __u32 num_info;
 /* Followed by num_info * record_size number of bytes */
 __u8 data[];
};

/* The minimum bpf_func_info checked by the loader */
struct bpf_func_info_min {
 __u32   insn_off;
 __u32   type_id;
};

/* The minimum bpf_line_info checked by the loader */
struct bpf_line_info_min {
 __u32 insn_off;
 __u32 file_name_off;
 __u32 line_off;
 __u32 line_col;
```

```
};


typedef
 int (*type_id_visit_fn)(__u32 *type_id, void *ctx);
typedef int (*str_off_visit_fn)(__u32 *str_off, void *ctx);
int btf_type_visit_type_ids(struct btf_type *t, type_id_visit_fn visit, void *ctx);
int btf_type_visit_str_offs(struct btf_type *t, str_off_visit_fn visit, void *ctx);
int btf_ext_visit_type_ids(struct btf_ext *btf_ext, type_id_visit_fn visit, void *ctx);
int btf_ext_visit_str_offs(struct btf_ext *btf_ext, str_off_visit_fn visit, void *ctx);
__s32 btf__find_by_name_kind_own(const struct btf *btf, const char *type_name,
     __u32 kind);

/* handle direct returned errors */
static inline int libbpf_err(int ret)
{
 if (ret < 0)
  errno = -ret;
 return ret;
}

/* handle errno-based (e.g., syscall or libc) errors according to libbpf's
* strict mode settings
*/
static inline int libbpf_err_errno(int ret)
{
 /* errno is already assumed to be set on error */
 return ret < 0 ? -errno : ret;
}

/* handle
 error for pointer-returning APIs, err is assumed to be < 0 always */
static inline void *libbpf_err_ptr(int err)
{
 /* set errno on error, this doesn't break anything */
 errno = -err;
 return NULL;
}

/* handle pointer-returning APIs' error handling */
static inline void *libbpf_ptr(void *ret)
{
 /* set errno on error, this doesn't break anything */
 if (IS_ERR(ret))
  errno = -PTR_ERR(ret);

 return IS_ERR(ret) ? NULL : ret;
}
```

```
static inline bool str_is_empty(const char *s)
{
 return !s || !s[0];
}

static inline bool is_ldimm64_insn(struct bpf_insn *insn)
{
 return insn->code == (BPF_LD | BPF_IMM | BPF_DW);
}

/* Unconditionally dup FD, ensuring it doesn't use [0, 2] range.
* Original FD is not closed or altered in any other way.
* Preserves original FD value, if it's invalid (negative).
*/
static inline int dup_good_fd(int fd)
{
 if (fd < 0)
  return fd;
 return fcntl(fd, F_DUPFD_CLOEXEC, 3);
}

/* if fd is stdin, stdout, or stderr, dup to a fd greater than 2
* Takes ownership
 of the fd passed in, and closes it if calling
* fcntl(fd, F_DUPFD_CLOEXEC, 3).
*/
static inline int ensure_good_fd(int fd)
{
 int old_fd = fd, saved_errno;

 if (fd < 0)
  return fd;
 if (fd < 3) {
  fd = dup_good_fd(fd);
  saved_errno = errno;
  close(old_fd);
  errno = saved_errno;
  if (fd < 0) {
   pr_warn("failed to dup FD %d to FD > 2: %d\n", old_fd, -saved_errno);
   errno = saved_errno;
  }
 }
 return fd;
}

static inline int sys_dup2(int oldfd, int newfd)
{
```

```
#ifdef __NR_dup2
 return syscall(__NR_dup2, oldfd, newfd);
#else
 return syscall(__NR_dup3, oldfd, newfd, 0);
#endif
}

/* Point *fixed_fd* to the same file that *tmp_fd* points to.
* Regardless of success, *tmp_fd* is closed.
* Whatever *fixed_fd* pointed to is closed silently.
*/
static inline int reuse_fd(int fixed_fd, int tmp_fd)
{
 int err;

 err = sys_dup2(tmp_fd, fixed_fd);
 err = err < 0 ? -errno : 0;
 close(tmp_fd); /* clean up temporary FD */
 return err;
}

/* The following two functions are exposed to bpftool
 */
int bpf_core_add_cands(struct bpf_core_cand *local_cand,
        size_t local_essent_len,
        const struct btf *targ_btf,
        const char *targ_btf_name,
        int targ_start_id,
        struct bpf_core_cand_list *cands);
void bpf_core_free_cands(struct bpf_core_cand_list *cands);

struct usdt_manager *usdt_manager_new(struct bpf_object *obj);
void usdt_manager_free(struct usdt_manager *man);
struct bpf_link * usdt_manager_attach_usdt(struct usdt_manager *man,
       const struct bpf_program *prog,
       pid_t pid, const char *path,
       const char *usdt_provider, const char *usdt_name,
       __u64 usdt_cookie);

static inline bool is_pow_of_2(size_t x)
{
 return x && (x & (x - 1)) == 0;
}

#define PROG_LOAD_ATTEMPTS 5
int sys_bpf_prog_load(union bpf_attr *attr, unsigned int size, int attempts);

bool glob_match(const char *str, const char *pat);
```

```
long elf_find_func_offset(Elf *elf, const char *binary_path, const char *name);
long elf_find_func_offset_from_file(const
 char *binary_path, const char *name);

struct elf_fd {
 Elf *elf;
 int fd;
};

int elf_open(const char *binary_path, struct elf_fd *elf_fd);
void elf_close(struct elf_fd *elf_fd);

int elf_resolve_syms_offsets(const char *binary_path, int cnt,
        const char **syms, unsigned long **poffsets,
        int st_type);
int elf_resolve_pattern_offsets(const char *binary_path, const char *pattern,
     unsigned long **poffsets, size_t *pcnt);

int probe_fd(int fd);

#endif /* __LIBBPF_LIBBPF_INTERNAL_H */
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#ifndef __CALI_IFSTATE_H__
#define __CALI_IFSTATE_H__

struct ifstate_val {
 __u32 flags;
 char  name[16];
 __s32 xdp_policy_v4;
 __s32 ingress_policy_v4;
 __s32 egress_policy_v4;
 __s32 xdp_policy_v6;
 __s32 ingress_policy_v6;
 __s32 egress_policy_v6;
 __s32 tc_filter_ingress;
 __s32 tc_filter_egress;
};

CALI_MAP(cali_iface, 4,
  BPF_MAP_TYPE_HASH,
  __u32, struct ifstate_val,
  1000, BPF_F_NO_PREALLOC)

#define IFACE_STATE_WEP         0x1
```

```
#define IFACE_STATE_V4_READY    0x2
#define IFACE_STATE_V6_READY    0x4
#define IFACE_STATE_HEP         0x8
#define IFACE_STATE_NOT_MANAGED 0x400

#define iface_is_workload(state)  ((state) & IFACE_STATE_WEP)
#define iface_is_not_managed(state)  ((state) & IFACE_STATE_NOT_MANAGED)
#ifdef IPVER6
#define iface_is_ready(state) ((state) & IFACE_STATE_V6_READY)
#else
#define iface_is_ready(state) ((state)
 & IFACE_STATE_V4_READY)
#endif

#endif /* __CALI_IFSTATE_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

#ifndef __LINUX_KERNEL_H
#define __LINUX_KERNEL_H

#include <linux/compiler.h>

#ifndef offsetof
#define offsetof(TYPE, MEMBER) ((size_t) &((TYPE *)0)->MEMBER)
#endif

#ifndef container_of
#define container_of(ptr, type, member) ({   \
 const typeof(((type *)0)->member) * __mptr = (ptr); \
 (type *)((char *)__mptr - offsetof(type, member)); })
#endif

#ifndef max
#define max(x, y) ({    \
 typeof(x) _max1 = (x);   \
 typeof(y) _max2 = (y);   \
 (void) (&_max1 == &_max2);  \
 _max1 > _max2 ? _max1 : _max2; })
#endif

#ifndef min
#define min(x, y) ({    \
 typeof(x) _min1 = (x);   \
 typeof(y) _min2 = (y);   \
 (void) (&_min1 == &_min2);  \
 _min1 < _min2 ? _min1 : _min2; })
#endif
```

```
#ifndef roundup
#define roundup(x, y) (    \
{      \
 const typeof(y) __y = y;  \
 (((x) + (__y - 1)) / __y) * __y; \
}      \
)
#endif

#define ARRAY_SIZE(arr) (sizeof(arr) / sizeof((arr)[0]))
#define __KERNEL_DIV_ROUND_UP(n, d) (((n) + (d) - 1) / (d))

#endif
version: v1.0
name: Run Fossa Scan

agent:
 machine:
   type: f1-standard-2
   os_image: ubuntu2004

execution_time_limit:
 minutes: 30

blocks:
 - name: "Trigger Fossa Scan"
   skip:
     # Only run on master or release branches, not PRs.
     when: "(branch =~ 'master|release-.*') and (branch !~ '.+')"
   dependencies: []
   task:
     prologue:
       commands:
         - "curl -fsSLH 'Cache-Control: no-cache' https://raw.githubusercontent.com/fossas/fossa-cli/master/install-latest.sh | bash"
         - checkout
         - retry git fetch --unshallow
     jobs:
       - name: "FOSSA scan"
         commands:
           - fossa analyze
     secrets:
       - name: foss-api-key
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```
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/* Copyright (c) 2021 Facebook */
#ifndef __SKEL_INTERNAL_H
#define __SKEL_INTERNAL_H

#ifdef __KERNEL__
#include <linux/fdtable.h>
#include <linux/mm.h>
#include <linux/mman.h>
#include <linux/slab.h>
#include <linux/bpf.h>
#else
#include <unistd.h>
#include <sys/syscall.h>
#include <sys/mman.h>
#include <stdlib.h>
#include "bpf.h"
#endif

#ifndef __NR_bpf
# if defined(__mips__) && defined(_ABIO32)
#  define __NR_bpf 4355
# elif defined(__mips__) && defined(_ABIN32)
#  define __NR_bpf 6319
# elif defined(__mips__) && defined(_ABI64)
#  define __NR_bpf 5315
# endif
#endif

/* This file is a base header for auto-generated *.lskel.h files.
* Its contents will change and may become part of auto-generation in the future.
*
* The layout of bpf_[map|prog]_desc and bpf_loader_ctx is feature dependent
* and will change from one version of libbpf to another and features
* requested during loader program generation.
*/
```

```
struct bpf_map_desc
 {
 /* output of the loader prog */
 int map_fd;
 /* input for the loader prog */
 __u32 max_entries;
 __aligned_u64 initial_value;
};
struct bpf_prog_desc {
 int prog_fd;
};

enum {
 BPF_SKEL_KERNEL = (1ULL << 0),
};

struct bpf_loader_ctx {
 __u32 sz;
 __u32 flags;
 __u32 log_level;
 __u32 log_size;
 __u64 log_buf;
};

struct bpf_load_and_run_opts {
 struct bpf_loader_ctx *ctx;
 const void *data;
 const void *insns;
 __u32 data_sz;
 __u32 insns_sz;
 const char *errstr;
};

long kern_sys_bpf(__u32 cmd, void *attr, __u32 attr_size);

static inline int skel_sys_bpf(enum bpf_cmd cmd, union bpf_attr *attr,
     unsigned int size)
{
#ifdef __KERNEL__
 return kern_sys_bpf(cmd, attr, size);
#else
 return syscall(__NR_bpf, cmd, attr, size);
#endif
}

#ifdef __KERNEL__
static inline int close(int fd)
{
```

```
 return close_fd(fd);
}

static inline void *skel_alloc(size_t size)
{
 struct bpf_loader_ctx *ctx = kzalloc(size, GFP_KERNEL);

 if (!ctx)
  return NULL;
 ctx->flags |= BPF_SKEL_KERNEL;
 return
 ctx;
}

static inline void skel_free(const void *p)
{
 kfree(p);
}

/* skel->bss/rodata maps are populated the following way:
*
* For kernel use:
* skel_prep_map_data() allocates kernel memory that kernel module can directly access.
* Generated lskel stores the pointer in skel->rodata and in skel->maps.rodata.initial_value.
* The loader program will perform probe_read_kernel() from maps.rodata.initial_value.
* skel_finalize_map_data() sets skel->rodata to point to actual value in a bpf map and
* does maps.rodata.initial_value = ~0ULL to signal skel_free_map_data() that kvfree
* is not nessary.
*
* For user space:
* skel_prep_map_data() mmaps anon memory into skel->rodata that can be accessed directly.
* Generated lskel stores the pointer in skel->rodata and in skel->maps.rodata.initial_value.
* The loader program will perform copy_from_user() from maps.rodata.initial_value.
* skel_finalize_map_data() remaps bpf array map value from the kernel memory into
* skel->rodata
 address.
*
* The "bpftool gen skeleton -L" command generates lskel.h that is suitable for
* both kernel and user space. The generated loader program does
* either bpf_probe_read_kernel() or bpf_copy_from_user() from initial_value
* depending on bpf_loader_ctx->flags.
*/
static inline void skel_free_map_data(void *p, __u64 addr, size_t sz)
{
 if (addr != ~0ULL)
  kvfree(p);
 /* When addr == ~0ULL the 'p' points to
  * ((struct bpf_array *)map)->value. See skel_finalize_map_data.
```

```
  */
}

static inline void *skel_prep_map_data(const void *val, size_t mmap_sz, size_t val_sz)
{
 void *addr;

 addr = kvmalloc(val_sz, GFP_KERNEL);
 if (!addr)
  return NULL;
 memcpy(addr, val, val_sz);
 return addr;
}

static inline void *skel_finalize_map_data(__u64 *init_val, size_t mmap_sz, int flags, int fd)
{
 struct bpf_map *map;
 void *addr = NULL;

 kvfree((void *) (long) *init_val);
 *init_val = ~0ULL;

 /* At this point bpf_load_and_run() finished without error and
  * 'fd' is a valid bpf
 map FD. All sanity checks below should succeed.
  */
 map = bpf_map_get(fd);
 if (IS_ERR(map))
  return NULL;
 if (map->map_type != BPF_MAP_TYPE_ARRAY)
  goto out;
 addr = ((struct bpf_array *)map)->value;
 /* the addr stays valid, since FD is not closed */
out:
 bpf_map_put(map);
 return addr;
}

#else

static inline void *skel_alloc(size_t size)
{
 return calloc(1, size);
}

static inline void skel_free(void *p)
{
 free(p);
```

```
}

static inline void skel_free_map_data(void *p, __u64 addr, size_t sz)
{
 munmap(p, sz);
}

static inline void *skel_prep_map_data(const void *val, size_t mmap_sz, size_t val_sz)
{
 void *addr;

 addr = mmap(NULL, mmap_sz, PROT_READ | PROT_WRITE,
      MAP_SHARED | MAP_ANONYMOUS, -1, 0);
 if (addr == (void *) -1)
  return NULL;
 memcpy(addr, val, val_sz);
 return addr;
}

static inline void *skel_finalize_map_data(__u64 *init_val, size_t mmap_sz, int flags, int fd)
{
 void *addr;

 addr = mmap((void *) (long) *init_val, mmap_sz, flags, MAP_SHARED | MAP_FIXED, fd,
 0);
 if (addr == (void *) -1)
  return NULL;
 return addr;
}
#endif

static inline int skel_closenz(int fd)
{
 if (fd > 0)
  return close(fd);
 return -EINVAL;
}

#ifndef offsetofend
#define offsetofend(TYPE, MEMBER) \
 (offsetof(TYPE, MEMBER) + sizeof((((TYPE *)0)->MEMBER)))
#endif

static inline int skel_map_create(enum bpf_map_type map_type,
      const char *map_name,
      __u32 key_size,
      __u32 value_size,
      __u32 max_entries)
```

```
{
 const size_t attr_sz = offsetofend(union bpf_attr, map_extra);
 union bpf_attr attr;

 memset(&attr, 0, attr_sz);

 attr.map_type = map_type;
 strncpy(attr.map_name, map_name, sizeof(attr.map_name));
 attr.key_size = key_size;
 attr.value_size = value_size;
 attr.max_entries = max_entries;

 return skel_sys_bpf(BPF_MAP_CREATE, &attr, attr_sz);
}

static inline int skel_map_update_elem(int fd, const void *key,
        const void *value, __u64 flags)
{
 const size_t attr_sz = offsetofend(union bpf_attr, flags);
 union bpf_attr attr;

 memset(&attr,
 0, attr_sz);
 attr.map_fd = fd;
 attr.key = (long) key;
 attr.value = (long) value;
 attr.flags = flags;

 return skel_sys_bpf(BPF_MAP_UPDATE_ELEM, &attr, attr_sz);
}

static inline int skel_map_delete_elem(int fd, const void *key)
{
 const size_t attr_sz = offsetofend(union bpf_attr, flags);
 union bpf_attr attr;

 memset(&attr, 0, attr_sz);
 attr.map_fd = fd;
 attr.key = (long)key;

 return skel_sys_bpf(BPF_MAP_DELETE_ELEM, &attr, attr_sz);
}

static inline int skel_map_get_fd_by_id(__u32 id)
{
 const size_t attr_sz = offsetofend(union bpf_attr, flags);
 union bpf_attr attr;
```

```
 memset(&attr, 0, attr_sz);
 attr.map_id = id;

 return skel_sys_bpf(BPF_MAP_GET_FD_BY_ID, &attr, attr_sz);
}

static inline int skel_raw_tracepoint_open(const char *name, int prog_fd)
{
 const size_t attr_sz = offsetofend(union bpf_attr, raw_tracepoint.prog_fd);
 union bpf_attr attr;

 memset(&attr, 0, attr_sz);
 attr.raw_tracepoint.name = (long) name;
 attr.raw_tracepoint.prog_fd = prog_fd;

 return skel_sys_bpf(BPF_RAW_TRACEPOINT_OPEN,
 &attr, attr_sz);
}

static inline int skel_link_create(int prog_fd, int target_fd,
       enum bpf_attach_type attach_type)
{
 const size_t attr_sz = offsetofend(union bpf_attr, link_create.iter_info_len);
 union bpf_attr attr;

 memset(&attr, 0, attr_sz);
 attr.link_create.prog_fd = prog_fd;
 attr.link_create.target_fd = target_fd;
 attr.link_create.attach_type = attach_type;

 return skel_sys_bpf(BPF_LINK_CREATE, &attr, attr_sz);
}

#ifdef __KERNEL__
#define set_err
#else
#define set_err err = -errno
#endif

static inline int bpf_load_and_run(struct bpf_load_and_run_opts *opts)
{
 const size_t prog_load_attr_sz = offsetofend(union bpf_attr, fd_array);
 const size_t test_run_attr_sz = offsetofend(union bpf_attr, test);
 int map_fd = -1, prog_fd = -1, key = 0, err;
 union bpf_attr attr;

 err = map_fd = skel_map_create(BPF_MAP_TYPE_ARRAY, "__loader.map", 4, opts->data_sz, 1);
 if (map_fd < 0) {
```

```
 opts->errstr = "failed to create loader map";
 set_err;
 goto
out;
}

err = skel_map_update_elem(map_fd, &key, opts->data, 0);
if (err < 0) {
 opts->errstr = "failed to update loader map";
 set_err;
 goto out;
}

memset(&attr, 0, prog_load_attr_sz);
attr.prog_type = BPF_PROG_TYPE_SYSCALL;
attr.insns = (long) opts->insns;
attr.insn_cnt = opts->insns_sz / sizeof(struct bpf_insn);
attr.license = (long) "Dual BSD/GPL";
memcpy(attr.prog_name, "__loader.prog", sizeof("__loader.prog"));
attr.fd_array = (long) &map_fd;
attr.log_level = opts->ctx->log_level;
attr.log_size = opts->ctx->log_size;
attr.log_buf = opts->ctx->log_buf;
attr.prog_flags = BPF_F_SLEEPABLE;
err = prog_fd = skel_sys_bpf(BPF_PROG_LOAD, &attr, prog_load_attr_sz);
if (prog_fd < 0) {
 opts->errstr = "failed to load loader prog";
 set_err;
 goto out;
}

memset(&attr, 0, test_run_attr_sz);
attr.test.prog_fd = prog_fd;
attr.test.ctx_in = (long) opts->ctx;
attr.test.ctx_size_in = opts->ctx->sz;
err = skel_sys_bpf(BPF_PROG_RUN, &attr, test_run_attr_sz);
if
(err < 0 || (int)attr.test.retval < 0) {
 opts->errstr = "failed to execute loader prog";
 if (err < 0) {
  set_err;
 } else {
  err = (int)attr.test.retval;
#ifndef __KERNEL__
  errno = -err;
#endif
 }
 goto out;
```

```
 }
 err = 0;
out:
 if (map_fd >= 0)
  close(map_fd);
 if (prog_fd >= 0)
  close(prog_fd);
 return err;
}

#endif
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
/* Copyright (C) 2021 Facebook */
#ifndef __LIBBPF_VERSION_H
#define __LIBBPF_VERSION_H

#define LIBBPF_MAJOR_VERSION 1
#define LIBBPF_MINOR_VERSION 5

#endif /* __LIBBPF_VERSION_H */
DOXYFILE_ENCODING      = UTF-8
PROJECT_NAME           = "libbpf"
PROJECT_NUMBER         =
PROJECT_BRIEF          =
PROJECT_LOGO           =
OUTPUT_DIRECTORY       = ./build
CREATE_SUBDIRS         = NO
ALLOW_UNICODE_NAMES    = NO
OUTPUT_LANGUAGE        = English
OUTPUT_TEXT_DIRECTION  = None
BRIEF_MEMBER_DESC      = YES
REPEAT_BRIEF           = YES
ALWAYS_DETAILED_SEC    = NO
INLINE_INHERITED_MEMB  = NO
FULL_PATH_NAMES        = YES
STRIP_FROM_PATH        =
STRIP_FROM_INC_PATH    =
SHORT_NAMES            = NO
JAVADOC_AUTOBRIEF      = NO
JAVADOC_BANNER         = NO
QT_AUTOBRIEF           = NO
MULTILINE_CPP_IS_BRIEF = NO
PYTHON_DOCSTRING       = NO
INHERIT_DOCS           = YES
SEPARATE_MEMBER_PAGES  = NO
TAB_SIZE               = 4
ALIASES                =
OPTIMIZE_OUTPUT_FOR_C  = YES
```

```
OPTIMIZE_OUTPUT_JAVA   = NO
OPTIMIZE_FOR_FORTRAN   = NO
OPTIMIZE_OUTPUT_VHDL   = NO
OPTIMIZE_OUTPUT_SLICE  = NO
EXTENSION_MAPPING      =
MARKDOWN_SUPPORT       = YES
TOC_INCLUDE_HEADINGS   = 5
AUTOLINK_SUPPORT
      = YES
BUILTIN_STL_SUPPORT    = NO
CPP_CLI_SUPPORT        = NO
SIP_SUPPORT            = NO
IDL_PROPERTY_SUPPORT   = YES
DISTRIBUTE_GROUP_DOC   = NO
GROUP_NESTED_COMPOUNDS = NO
SUBGROUPING            = YES
INLINE_GROUPED_CLASSES = NO
INLINE_SIMPLE_STRUCTS  = NO
TYPEDEF_HIDES_STRUCT   = NO
LOOKUP_CACHE_SIZE      = 0
NUM_PROC_THREADS       = 1
EXTRACT_ALL            = NO
EXTRACT_PRIVATE        = NO
EXTRACT_PRIV_VIRTUAL   = NO
EXTRACT_PACKAGE        = NO
EXTRACT_STATIC         = NO
EXTRACT_LOCAL_CLASSES  = YES
EXTRACT_LOCAL_METHODS  = NO
EXTRACT_ANON_NSPACES   = NO
RESOLVE_UNNAMED_PARAMS = YES
HIDE_UNDOC_MEMBERS     = NO
HIDE_UNDOC_CLASSES     = NO
HIDE_FRIEND_COMPOUNDS  = NO
HIDE_IN_BODY_DOCS      = NO
INTERNAL_DOCS          = NO
CASE_SENSE_NAMES       = YES
HIDE_SCOPE_NAMES       = NO
HIDE_COMPOUND_REFERENCE= NO
SHOW_INCLUDE_FILES     = YES
SHOW_GROUPED_MEMB_INC  = NO
FORCE_LOCAL_INCLUDES   = NO
INLINE_INFO            = YES
SORT_MEMBER_DOCS       = YES
SORT_BRIEF_DOCS        = NO
SORT_MEMBERS_CTORS_1ST
 = NO
SORT_GROUP_NAMES       = NO
SORT_BY_SCOPE_NAME     = NO
```

```
STRICT_PROTO_MATCHING  = NO
GENERATE_TODOLIST      = YES
GENERATE_TESTLIST      = YES
GENERATE_BUGLIST       = YES
GENERATE_DEPRECATEDLIST= YES
ENABLED_SECTIONS       =
MAX_INITIALIZER_LINES  = 30
SHOW_USED_FILES        = YES
SHOW_FILES             = YES
SHOW_NAMESPACES        = YES
FILE_VERSION_FILTER    =
LAYOUT_FILE            =
CITE_BIB_FILES         =
QUIET                  = NO
WARNINGS               = YES
WARN_IF_UNDOCUMENTED   = YES
WARN_IF_DOC_ERROR      = YES
WARN_NO_PARAMDOC       = NO
WARN_AS_ERROR          = NO
WARN_FORMAT            = "$file:$line: $text"
WARN_LOGFILE           =
INPUT                  = ../../../src
INPUT_ENCODING         = UTF-8
FILE_PATTERNS          = *.c \
                         *.h
RECURSIVE              = NO
EXCLUDE                =
EXCLUDE_SYMLINKS       = NO
EXCLUDE_PATTERNS       =
EXCLUDE_SYMBOLS        = ___*
EXAMPLE_PATH           =
EXAMPLE_PATTERNS       = *
EXAMPLE_RECURSIVE
     = NO
IMAGE_PATH             =
INPUT_FILTER           =
FILTER_PATTERNS        =
FILTER_SOURCE_FILES    = NO
FILTER_SOURCE_PATTERNS =
USE_MDFILE_AS_MAINPAGE = YES
SOURCE_BROWSER         = NO
INLINE_SOURCES         = NO
STRIP_CODE_COMMENTS    = YES
REFERENCED_BY_RELATION = NO
REFERENCES_RELATION    = NO
REFERENCES_LINK_SOURCE = YES
SOURCE_TOOLTIPS        = YES
USE_HTAGS              = NO
```

```
VERBATIM_HEADERS       = YES
ALPHABETICAL_INDEX     = YES
IGNORE_PREFIX          =
GENERATE_HTML          = NO
HTML_OUTPUT            = html
HTML_FILE_EXTENSION    = .html
HTML_HEADER            =
HTML_FOOTER            =
HTML_STYLESHEET        =
HTML_EXTRA_STYLESHEET  =
HTML_EXTRA_FILES       =
HTML_COLORSTYLE_HUE    = 220
HTML_COLORSTYLE_SAT    = 100
HTML_COLORSTYLE_GAMMA  = 80
HTML_TIMESTAMP         = NO
HTML_DYNAMIC_MENUS     = YES
HTML_DYNAMIC_SECTIONS  = NO
HTML_INDEX_NUM_ENTRIES = 100
GENERATE_DOCSET        = NO
DOCSET_FEEDNAME        = "Doxygen generated docs"
DOCSET_BUNDLE_ID
      = org.doxygen.Project
DOCSET_PUBLISHER_ID    = org.doxygen.Publisher
DOCSET_PUBLISHER_NAME  = Publisher
GENERATE_HTMLHELP      = NO
CHM_FILE               =
HHC_LOCATION           =
GENERATE_CHI           = NO
CHM_INDEX_ENCODING     =
BINARY_TOC             = NO
TOC_EXPAND             = NO
GENERATE_QHP           = NO
QCH_FILE               =
QHP_NAMESPACE          = org.doxygen.Project
QHP_VIRTUAL_FOLDER     = doc
QHP_CUST_FILTER_NAME   =
QHP_CUST_FILTER_ATTRS  =
QHP_SECT_FILTER_ATTRS  =
QHG_LOCATION           =
GENERATE_ECLIPSEHELP   = NO
ECLIPSE_DOC_ID         = org.doxygen.Project
DISABLE_INDEX          = NO
GENERATE_TREEVIEW      = NO
ENUM_VALUES_PER_LINE   = 4
TREEVIEW_WIDTH         = 250
EXT_LINKS_IN_WINDOW    = NO
HTML_FORMULA_FORMAT    = png
FORMULA_FONTSIZE       = 10
```

```
FORMULA_TRANSPARENT    = YES
FORMULA_MACROFILE      =
USE_MATHJAX            = NO
MATHJAX_FORMAT         = HTML-CSS
MATHJAX_RELPATH        = https://cdn.jsdelivr.net/npm/mathjax@2
MATHJAX_EXTENSIONS
  =
MATHJAX_CODEFILE       =
SEARCHENGINE           = YES
SERVER_BASED_SEARCH    = NO
EXTERNAL_SEARCH        = NO
SEARCHENGINE_URL       =
SEARCHDATA_FILE        = searchdata.xml
EXTERNAL_SEARCH_ID     =
EXTRA_SEARCH_MAPPINGS  =
GENERATE_LATEX         = NO
LATEX_OUTPUT           = latex
LATEX_CMD_NAME         =
MAKEINDEX_CMD_NAME     = makeindex
LATEX_MAKEINDEX_CMD    = makeindex
COMPACT_LATEX          = NO
PAPER_TYPE             = a4
EXTRA_PACKAGES         =
LATEX_HEADER           =
LATEX_FOOTER           =
LATEX_EXTRA_STYLESHEET =
LATEX_EXTRA_FILES      =
PDF_HYPERLINKS         = YES
USE_PDFLATEX           = YES
LATEX_BATCHMODE        = NO
LATEX_HIDE_INDICES     = NO
LATEX_SOURCE_CODE      = NO
LATEX_BIB_STYLE        = plain
LATEX_TIMESTAMP        = NO
LATEX_EMOJI_DIRECTORY  =
GENERATE_RTF           = NO
RTF_OUTPUT             = rtf
COMPACT_RTF            = NO
RTF_HYPERLINKS         = NO
RTF_STYLESHEET_FILE    =
RTF_EXTENSIONS_FILE    =
RTF_SOURCE_CODE        = NO
GENERATE_MAN
   = NO
MAN_OUTPUT             = man
MAN_EXTENSION          = .3
MAN_SUBDIR             =
MAN_LINKS              = NO
```

```
GENERATE_XML           = YES
XML_OUTPUT             = xml
XML_PROGRAMLISTING     = YES
XML_NS_MEMB_FILE_SCOPE = NO
GENERATE_DOCBOOK       = NO
DOCBOOK_OUTPUT         = docbook
DOCBOOK_PROGRAMLISTING = NO
GENERATE_AUTOGEN_DEF   = NO
GENERATE_PERLMOD       = NO
PERLMOD_LATEX          = NO
PERLMOD_PRETTY         = YES
PERLMOD_MAKEVAR_PREFIX =
ENABLE_PREPROCESSING   = YES
MACRO_EXPANSION        = NO
EXPAND_ONLY_PREDEF     = YES
SEARCH_INCLUDES        = YES
INCLUDE_PATH           =
INCLUDE_FILE_PATTERNS  =
PREDEFINED             =
EXPAND_AS_DEFINED      =
SKIP_FUNCTION_MACROS   = NO
TAGFILES               =
GENERATE_TAGFILE       =
ALLEXTERNALS           = NO
EXTERNAL_GROUPS        = YES
EXTERNAL_PAGES         = YES
CLASS_DIAGRAMS         = YES
DIA_PATH               =
HIDE_UNDOC_RELATIONS   = YES
HAVE_DOT               = NO
DOT_NUM_THREADS        = 0
DOT_FONTNAME
 = Helvetica
DOT_FONTSIZE           = 10
DOT_FONTPATH           =
CLASS_GRAPH            = YES
COLLABORATION_GRAPH    = YES
GROUP_GRAPHS           = YES
UML_LOOK               = NO
UML_LIMIT_NUM_FIELDS   = 10
DOT_UML_DETAILS        = NO
DOT_WRAP_THRESHOLD     = 17
TEMPLATE_RELATIONS     = NO
INCLUDE_GRAPH          = YES
INCLUDED_BY_GRAPH      = YES
CALL_GRAPH             = NO
CALLER_GRAPH           = NO
GRAPHICAL_HIERARCHY    = YES
```

```
DIRECTORY_GRAPH        = YES
DOT_IMAGE_FORMAT       = png
INTERACTIVE_SVG        = NO
DOT_PATH               =
DOTFILE_DIRS           =
MSCFILE_DIRS           =
DIAFILE_DIRS           =
PLANTUML_JAR_PATH      =
PLANTUML_CFG_FILE      =
PLANTUML_INCLUDE_PATH  =
DOT_GRAPH_MAX_NODES    = 50
MAX_DOT_GRAPH_DEPTH    = 0
DOT_TRANSPARENT        = NO
DOT_MULTI_TARGETS      = NO
GENERATE_LEGEND        = YES
DOT_CLEANUP            = YES
breathe
sphinx_rtd_theme
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_POLICY_H__
#define __CALI_POLICY_H__

enum calico_policy_result {
 CALI_POL_NO_MATCH,
 CALI_POL_ALLOW,
 CALI_POL_DENY,
};

struct port_range {
     __u64 ip_set_id;
     __u16 min, max;
};

struct cidr {
     __be32 mask, addr;
};

// IP sets, all stored in one big map with a prefix to identify the set.

// WARNING: must be kept in sync with the definitions in bpf/polprog/pol_prog_builder.go.
// WARNING: must be kept in sync with the definitions in bpf/ipsets/map.go.
struct ip_set_key {
 __u32 mask;
 __be64 set_id;
 ipv46_addr_t addr;
```

```
 __u16 port;
 __u8 protocol;
 __u8 pad;
} __attribute__((packed));

union ip_set_lpm_key {
 struct bpf_lpm_trie_key lpm;
 struct ip_set_key ip;
};

#ifdef IPVER6
CALI_MAP_NAMED(cali_v6_ip_sets, cali_ip_sets,,
#else
CALI_MAP_NAMED(cali_v4_ip_sets, cali_ip_sets,,
#endif
 BPF_MAP_TYPE_LPM_TRIE,
 union
 ip_set_lpm_key,
 __u32,
 1024*1024,
 BPF_F_NO_PREALLOC)

#define RULE_START(id)

#define RULE_END(id, action) \
 goto action; /* Reach here if the rule matched. */ \
 rule_no_match_ ## id: do {;} while (false)


#endif /* __CALI_POLICY_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

#ifndef __LINUX_LIST_H
#define __LINUX_LIST_H

#define LIST_HEAD_INIT(name) { &(name), &(name) }
#define LIST_HEAD(name) \
	struct list_head name = LIST_HEAD_INIT(name)

#define POISON_POINTER_DELTA 0
#define LIST_POISON1  ((void *) 0x100 + POISON_POINTER_DELTA)
#define LIST_POISON2  ((void *) 0x200 + POISON_POINTER_DELTA)


static inline void INIT_LIST_HEAD(struct list_head *list)
{
	list->next = list;
	list->prev = list;
```

```
}

static inline void __list_add(struct list_head *new,
                              struct list_head *prev,
                              struct list_head *next)
{
        next->prev = new;
        new->next = next;
        new->prev = prev;
        prev->next = new;
}

/**
* list_add - add a new entry
* @new: new entry to be added
* @head: list head to add it after
*
* Insert a new entry after the specified head.
* This is good for implementing stacks.
*/
static inline void list_add(struct
 list_head *new, struct list_head *head)
{
        __list_add(new, head, head->next);
}

/*
* Delete a list entry by making the prev/next entries
* point to each other.
*
* This is only for internal list manipulation where we know
* the prev/next entries already!
*/
static inline void __list_del(struct list_head * prev, struct list_head * next)
{
        next->prev = prev;
        prev->next = next;
}

/**
* list_del - deletes entry from list.
* @entry: the element to delete from the list.
* Note: list_empty() on entry does not return true after this, the entry is
* in an undefined state.
*/
static inline void __list_del_entry(struct list_head *entry)
{
        __list_del(entry->prev, entry->next);
```

```
}

static inline void list_del(struct list_head *entry)
{
	__list_del(entry->prev, entry->next);
	entry->next = LIST_POISON1;
	entry->prev = LIST_POISON2;
}

static inline int list_empty(const struct list_head *head)
{
 return head->next == head;
}

#define
 list_entry(ptr, type, member) \
	container_of(ptr, type, member)
#define list_first_entry(ptr, type, member) \
	list_entry((ptr)->next, type, member)
#define list_next_entry(pos, member) \
	list_entry((pos)->member.next, typeof(*(pos)), member)
#define list_for_each_entry(pos, head, member) \
 for (pos = list_first_entry(head, typeof(*pos), member); \
	&pos->member != (head); \
	pos = list_next_entry(pos, member))

#endif
```

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```
#ifndef __CALI_ARP_H__
#define __CALI_ARP_H__

#include "ip_addr.h"

struct arp_key {
 ipv46_addr_t ip;
 __u32 ifindex;
};

struct arp_value {
 char mac_src[6];
 char mac_dst[6];
};

#ifdef IPVER6
CALI_MAP_NAMED(cali_v6_arp, cali_arp, 2, BPF_MAP_TYPE_LRU_HASH, struct arp_key, struct arp_value,
10000, 0)
#else
CALI_MAP_NAMED(cali_v4_arp, cali_arp, 2, BPF_MAP_TYPE_LRU_HASH, struct arp_key, struct arp_value,
10000, 0)
#endif

#endif /* __CALI_ARP_H__ */
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#ifndef __CALI_PARSING4_H__
#define __CALI_PARSING4_H__

static CALI_BPF_INLINE int parse_packet_ip_v4(struct cali_tc_ctx *ctx)
{
 __u16 protocol = 0;

 /* We need to make a decision based on Ethernet protocol, however,
  * the protocol number is not available to XDP programs like TC ones.
  * In TC programs protocol number is available via skb->protocol.
  * For that, in XDP programs we need to parse at least up to Ethernet
  * first, before making any decision. But in TC programs we can make
  * an initial decision based on Ethernet protocol before parsing packet
  * for more headers.
  */
#if CALI_F_XDP
 if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("Too short\n");
```

```
  goto deny;
 }
 protocol = bpf_ntohs(eth_hdr(ctx)->h_proto);
#else
 protocol = bpf_ntohs(ctx->skb->protocol);
#endif

 switch
 (protocol) {
 case ETH_P_IP:
  break;
 case ETH_P_ARP:
  CALI_DEBUG("ARP: allowing packet\n");
  goto allow_no_fib;
 case ETH_P_IPV6:
  // Drop if the packet is to/from workload
  if (CALI_F_WEP) {
   CALI_DEBUG("IPv6 to/from workload: drop\n");
   goto deny;
  } else { // or allow, it the packet is on host interface
   CALI_DEBUG("IPv6 on host interface: allow\n");
   goto allow_no_fib;
  }
 default:
  if (CALI_F_WEP) {
   CALI_DEBUG("Unknown ethertype (%x), drop\n", protocol);
   goto deny;
  } else {
   CALI_DEBUG("Unknown ethertype on host interface (%x), allow\n",
         protocol);
   goto allow_no_fib;
  }
 }

 // In TC programs, parse packet and validate its size. This is
 // already done for XDP programs at the beginning of the function.
#if !CALI_F_XDP
 if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("Too short\n");
  goto deny;
 }
#endif

 CALI_DEBUG("IP id=%d len=%d\n",bpf_ntohs(ip_hdr(ctx)->id), bpf_htons(ip_hdr(ctx)->tot_len));
 CALI_DEBUG("IP
 s=" IP_FMT " d=" IP_FMT "\n", debug_ip(ip_hdr(ctx)->saddr), debug_ip(ip_hdr(ctx)->daddr));
 // Drop malformed IP packets
```

```
 if (ip_hdr(ctx)->ihl < 5) {
  CALI_DEBUG("Drop malformed IP packets\n");
  deny_reason(ctx, CALI_REASON_IP_MALFORMED);
  goto deny;
 }

 return PARSING_OK;

allow_no_fib:
 return PARSING_ALLOW_WITHOUT_ENFORCING_POLICY;

deny:
 return PARSING_ERROR;
}

static CALI_BPF_INLINE void tc_state_fill_from_iphdr_v4(struct cali_tc_ctx *ctx)
{
 ctx->state->ip_src = ip_hdr(ctx)->saddr;
 ctx->state->ip_dst = ip_hdr(ctx)->daddr;
 ctx->state->pre_nat_ip_dst = ip_hdr(ctx)->daddr;
 ctx->state->ip_proto = ip_hdr(ctx)->protocol;
 ctx->state->ip_size = ip_hdr(ctx)->tot_len;
 ctx->ipheader_len = ctx->state->ihl = ip_hdr(ctx)->ihl * 4;
 CALI_DEBUG("IP ihl=%d bytes\n", ctx->ipheader_len);
}

#endif /* __CALI_PARSING4_H__ */
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#ifndef __SENDRECV_H__
#define __SENDRECV_H__

struct sendrec_key {
 __u64 cookie;
 ipv46_addr_t ip;
 __u32 port; /* because bpf_sock_addr uses 32bit and we would need padding */
#ifdef IPVER6
 __u8 pad[4];
#endif
};

struct sendrec_val {
 ipv46_addr_t ip;
 __u32 port; /* because bpf_sock_addr uses 32bit and we would need padding */
};
```

```
#ifdef IPVER6
CALI_MAP_NAMED(cali_v6_srmsg, cali_srmsg,,
#else
CALI_MAP_NAMED(cali_v4_srmsg, cali_srmsg,,
#endif
  BPF_MAP_TYPE_LRU_HASH,
  struct sendrec_key, struct sendrec_val,
  510000, 0)

struct ct_nats_key {
 __u64 cookie;
 ipv46_addr_t ip;
 __u32 port; /* because bpf_sock_addr uses 32bit */
 __u8 proto;
#ifdef IPVER6
 __u8 pad[3];
#else
 __u8 pad[7];
#endif
};

#ifdef IPVER6
CALI_MAP_NAMED(cali_v6_ct_nats, cali_ct_nats ,,
#else
CALI_MAP_NAMED(cali_v4_ct_nats, cali_ct_nats ,,
#endif
  BPF_MAP_TYPE_LRU_HASH,
  struct
 ct_nats_key, struct sendrec_val,
  10000, 0)

static CALI_BPF_INLINE __u16 ctx_port_to_host(__u32 port)
{
 return bpf_ntohl(port) >> 16;
}

static CALI_BPF_INLINE __u32 host_to_ctx_port(__u16 port)
{
 return bpf_htonl(((__u32)port) << 16);
}

#endif /* __SENDRECV_H__ */
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
/*
* if_xdp: XDP socket user-space interface
* Copyright(c) 2018 Intel Corporation.
*
* Author(s): Bjrn Tpel <bjorn.topel@intel.com>
```

```
*       Magnus Karlsson <magnus.karlsson@intel.com>
*/

#ifndef _LINUX_IF_XDP_H
#define _LINUX_IF_XDP_H

#include <linux/types.h>

/* Options for the sxdp_flags field */
#define XDP_SHARED_UMEM (1 << 0)
#define XDP_COPY (1 << 1) /* Force copy-mode */
#define XDP_ZEROCOPY (1 << 2) /* Force zero-copy mode */
/* If this option is set, the driver might go sleep and in that case
* the XDP_RING_NEED_WAKEUP flag in the fill and/or Tx rings will be
* set. If it is set, the application need to explicitly wake up the
* driver with a poll() (Rx and Tx) or sendto() (Tx only). If you are
* running the driver and the application on the same core, you should
* use this option so that the kernel will yield to the user space
* application.
*/
#define XDP_USE_NEED_WAKEUP (1 << 3)
/* By setting this
 option, userspace application indicates that it can
* handle multiple descriptors per packet thus enabling AF_XDP to split
* multi-buffer XDP frames into multiple Rx descriptors. Without this set
* such frames will be dropped.
*/
#define XDP_USE_SG (1 << 4)

/* Flags for xsk_umem_config flags */
#define XDP_UMEM_UNALIGNED_CHUNK_FLAG (1 << 0)

/* Force checksum calculation in software. Can be used for testing or
* working around potential HW issues. This option causes performance
* degradation and only works in XDP_COPY mode.
*/
#define XDP_UMEM_TX_SW_CSUM  (1 << 1)

struct sockaddr_xdp {
 __u16 sxdp_family;
 __u16 sxdp_flags;
 __u32 sxdp_ifindex;
 __u32 sxdp_queue_id;
 __u32 sxdp_shared_umem_fd;
};

/* XDP_RING flags */
#define XDP_RING_NEED_WAKEUP (1 << 0)
```

```
struct xdp_ring_offset {
 __u64 producer;
 __u64 consumer;
 __u64 desc;
 __u64 flags;
};

struct xdp_mmap_offsets {
 struct xdp_ring_offset rx;
 struct xdp_ring_offset tx;
 struct xdp_ring_offset fr; /* Fill */
 struct xdp_ring_offset
 cr; /* Completion */
};

/* XDP socket options */
#define XDP_MMAP_OFFSETS  1
#define XDP_RX_RING   2
#define XDP_TX_RING   3
#define XDP_UMEM_REG   4
#define XDP_UMEM_FILL_RING  5
#define XDP_UMEM_COMPLETION_RING 6
#define XDP_STATISTICS   7
#define XDP_OPTIONS   8

struct xdp_umem_reg {
 __u64 addr; /* Start of packet data area */
 __u64 len; /* Length of packet data area */
 __u32 chunk_size;
 __u32 headroom;
 __u32 flags;
 __u32 tx_metadata_len;
};

struct xdp_statistics {
 __u64 rx_dropped; /* Dropped for other reasons */
 __u64 rx_invalid_descs; /* Dropped due to invalid descriptor */
 __u64 tx_invalid_descs; /* Dropped due to invalid descriptor */
 __u64 rx_ring_full; /* Dropped due to rx ring being full */
 __u64 rx_fill_ring_empty_descs; /* Failed to retrieve item from fill ring */
 __u64 tx_ring_empty_descs; /* Failed to retrieve item from tx ring */
};

struct xdp_options {
 __u32 flags;
};
```

```
/* Flags for the flags field of struct xdp_options */
#define XDP_OPTIONS_ZEROCOPY
 (1 << 0)

/* Pgoff for mmaping the rings */
#define XDP_PGOFF_RX_RING     0
#define XDP_PGOFF_TX_RING   0x80000000
#define XDP_UMEM_PGOFF_FILL_RING 0x100000000ULL
#define XDP_UMEM_PGOFF_COMPLETION_RING 0x180000000ULL

/* Masks for unaligned chunks mode */
#define XSK_UNALIGNED_BUF_OFFSET_SHIFT 48
#define XSK_UNALIGNED_BUF_ADDR_MASK \
 ((1ULL << XSK_UNALIGNED_BUF_OFFSET_SHIFT) - 1)

/* Request transmit timestamp. Upon completion, put it into tx_timestamp
* field of union xsk_tx_metadata.
*/
#define XDP_TXMD_FLAGS_TIMESTAMP  (1 << 0)

/* Request transmit checksum offload. Checksum start position and offset
* are communicated via csum_start and csum_offset fields of union
* xsk_tx_metadata.
*/
#define XDP_TXMD_FLAGS_CHECKSUM   (1 << 1)

/* AF_XDP offloads request. 'request' union member is consumed by the driver
* when the packet is being transmitted. 'completion' union member is
* filled by the driver when the transmit completion arrives.
*/
struct xsk_tx_metadata {
 __u64
 flags;

 union {
  struct {
   /* XDP_TXMD_FLAGS_CHECKSUM */

   /* Offset from desc->addr where checksumming should start. */
   __u16 csum_start;
   /* Offset from csum_start where checksum should be stored. */
   __u16 csum_offset;
  } request;

  struct {
   /* XDP_TXMD_FLAGS_TIMESTAMP */
   __u64 tx_timestamp;
  } completion;
```

```
 };
};

/* Rx/Tx descriptor */
struct xdp_desc {
 __u64 addr;
 __u32 len;
 __u32 options;
};

/* UMEM descriptor is __u64 */

/* Flag indicating that the packet continues with the buffer pointed out by the
* next frame in the ring. The end of the packet is signalled by setting this
* bit to zero. For single buffer packets, every descriptor has 'options' set
* to 0 and this maintains backward compatibility.
*/
#define XDP_PKT_CONTD (1 << 0)

/* TX packet carries valid metadata. */
#define XDP_TX_METADATA (1 << 1)

#endif /* _LINUX_IF_XDP_H */
# SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause)

prefix=@PREFIX@
libdir=@LIBDIR@
includedir=${prefix}/include

Name: libbpf
Description: BPF library
Version: @VERSION@
Libs: -L${libdir} -lbpf
Requires.private: libelf zlib
Cflags: -I${includedir}
```

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Version 3, 29 June 2007

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```
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```
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __ASM_BARRIER_H
#define __ASM_BARRIER_H

#include <linux/compiler.h>

#endif
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
/*
* Performance events:
*
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*    Copyright (C) 2008-2011, Red Hat, Inc., Ingo Molnar
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*
* Data type definitions, declarations, prototypes.
*
*    Started by: Thomas Gleixner and Ingo Molnar
*
* For licencing details see kernel-base/COPYING
*/
#ifndef _UAPI_LINUX_PERF_EVENT_H
#define _UAPI_LINUX_PERF_EVENT_H
```

```
#include <linux/types.h>
#include <linux/ioctl.h>
#include <asm/byteorder.h>

/*
* User-space ABI bits:
*/

/*
* attr.type
*/
enum perf_type_id {
 PERF_TYPE_HARDWARE   = 0,
 PERF_TYPE_SOFTWARE   = 1,
 PERF_TYPE_TRACEPOINT   = 2,
 PERF_TYPE_HW_CACHE   = 3,
 PERF_TYPE_RAW    = 4,
 PERF_TYPE_BREAKPOINT   = 5,

 PERF_TYPE_MAX,    /* non-ABI */
};

/*
* attr.config layout for type PERF_TYPE_HARDWARE and PERF_TYPE_HW_CACHE
* PERF_TYPE_HARDWARE:   0xEEEEEEEE000000AA
*     AA: hardware event
 ID
*     EEEEEEEE: PMU type ID
* PERF_TYPE_HW_CACHE:   0xEEEEEEEE00DDCCBB
*     BB: hardware cache ID
*     CC: hardware cache op ID
*     DD: hardware cache op result ID
*     EEEEEEEE: PMU type ID
* If the PMU type ID is 0, the PERF_TYPE_RAW will be applied.
*/
#define PERF_PMU_TYPE_SHIFT  32
#define PERF_HW_EVENT_MASK  0xffffffff

/*
* Generalized performance event event_id types, used by the
* attr.event_id parameter of the sys_perf_event_open()
* syscall:
*/
enum perf_hw_id {
 /*
  * Common hardware events, generalized by the kernel:
  */
 PERF_COUNT_HW_CPU_CYCLES  = 0,
```

```
 PERF_COUNT_HW_INSTRUCTIONS  = 1,
 PERF_COUNT_HW_CACHE_REFERENCES  = 2,
 PERF_COUNT_HW_CACHE_MISSES  = 3,
 PERF_COUNT_HW_BRANCH_INSTRUCTIONS = 4,
 PERF_COUNT_HW_BRANCH_MISSES  = 5,
 PERF_COUNT_HW_BUS_CYCLES  = 6,
 PERF_COUNT_HW_STALLED_CYCLES_FRONTEND = 7,
 PERF_COUNT_HW_STALLED_CYCLES_BACKEND = 8,
 PERF_COUNT_HW_REF_CPU_CYCLES  = 9,

 PERF_COUNT_HW_MAX,   /* non-ABI */
};

/*
* Generalized hardware
 cache events:
*
*       { L1-D, L1-I, LLC, ITLB, DTLB, BPU, NODE } x
*       { read, write, prefetch } x
*       { accesses, misses }
*/
enum perf_hw_cache_id {
 PERF_COUNT_HW_CACHE_L1D   = 0,
 PERF_COUNT_HW_CACHE_L1I   = 1,
 PERF_COUNT_HW_CACHE_LL   = 2,
 PERF_COUNT_HW_CACHE_DTLB  = 3,
 PERF_COUNT_HW_CACHE_ITLB  = 4,
 PERF_COUNT_HW_CACHE_BPU   = 5,
 PERF_COUNT_HW_CACHE_NODE  = 6,

 PERF_COUNT_HW_CACHE_MAX,  /* non-ABI */
};

enum perf_hw_cache_op_id {
 PERF_COUNT_HW_CACHE_OP_READ  = 0,
 PERF_COUNT_HW_CACHE_OP_WRITE  = 1,
 PERF_COUNT_HW_CACHE_OP_PREFETCH  = 2,

 PERF_COUNT_HW_CACHE_OP_MAX,  /* non-ABI */
};

enum perf_hw_cache_op_result_id {
 PERF_COUNT_HW_CACHE_RESULT_ACCESS = 0,
 PERF_COUNT_HW_CACHE_RESULT_MISS  = 1,

 PERF_COUNT_HW_CACHE_RESULT_MAX,  /* non-ABI */
};
```

```
/*
* Special "software" events provided by the kernel, even if the hardware
* does not support performance events. These events measure various
* physical and sw events of the kernel (and allow the profiling
 of them as
* well):
*/
enum perf_sw_ids {
 PERF_COUNT_SW_CPU_CLOCK   = 0,
 PERF_COUNT_SW_TASK_CLOCK  = 1,
 PERF_COUNT_SW_PAGE_FAULTS  = 2,
 PERF_COUNT_SW_CONTEXT_SWITCHES  = 3,
 PERF_COUNT_SW_CPU_MIGRATIONS  = 4,
 PERF_COUNT_SW_PAGE_FAULTS_MIN  = 5,
 PERF_COUNT_SW_PAGE_FAULTS_MAJ  = 6,
 PERF_COUNT_SW_ALIGNMENT_FAULTS  = 7,
 PERF_COUNT_SW_EMULATION_FAULTS  = 8,
 PERF_COUNT_SW_DUMMY   = 9,
 PERF_COUNT_SW_BPF_OUTPUT  = 10,
 PERF_COUNT_SW_CGROUP_SWITCHES  = 11,

 PERF_COUNT_SW_MAX,   /* non-ABI */
};

/*
* Bits that can be set in attr.sample_type to request information
* in the overflow packets.
*/
enum perf_event_sample_format {
 PERF_SAMPLE_IP    = 1U << 0,
 PERF_SAMPLE_TID    = 1U << 1,
 PERF_SAMPLE_TIME   = 1U << 2,
 PERF_SAMPLE_ADDR   = 1U << 3,
 PERF_SAMPLE_READ   = 1U << 4,
 PERF_SAMPLE_CALLCHAIN   = 1U << 5,
 PERF_SAMPLE_ID    = 1U << 6,
 PERF_SAMPLE_CPU    = 1U << 7,
 PERF_SAMPLE_PERIOD   = 1U << 8,
 PERF_SAMPLE_STREAM_ID   = 1U << 9,
 PERF_SAMPLE_RAW    = 1U << 10,
 PERF_SAMPLE_BRANCH_STACK  =
 1U << 11,
 PERF_SAMPLE_REGS_USER   = 1U << 12,
 PERF_SAMPLE_STACK_USER   = 1U << 13,
 PERF_SAMPLE_WEIGHT   = 1U << 14,
 PERF_SAMPLE_DATA_SRC   = 1U << 15,
 PERF_SAMPLE_IDENTIFIER   = 1U << 16,
 PERF_SAMPLE_TRANSACTION   = 1U << 17,
```

```
 PERF_SAMPLE_REGS_INTR   = 1U << 18,
 PERF_SAMPLE_PHYS_ADDR   = 1U << 19,
 PERF_SAMPLE_AUX    = 1U << 20,
 PERF_SAMPLE_CGROUP   = 1U << 21,
 PERF_SAMPLE_DATA_PAGE_SIZE  = 1U << 22,
 PERF_SAMPLE_CODE_PAGE_SIZE  = 1U << 23,
 PERF_SAMPLE_WEIGHT_STRUCT  = 1U << 24,

 PERF_SAMPLE_MAX = 1U << 25,  /* non-ABI */
};

#define PERF_SAMPLE_WEIGHT_TYPE (PERF_SAMPLE_WEIGHT | PERF_SAMPLE_WEIGHT_STRUCT)
/*
* values to program into branch_sample_type when PERF_SAMPLE_BRANCH is set
*
* If the user does not pass priv level information via branch_sample_type,
* the kernel uses the event's priv level. Branch and event priv levels do
* not have to match. Branch priv level is checked for permissions.
*
* The branch types can be combined, however BRANCH_ANY
 covers all types
* of branches and therefore it supersedes all the other types.
*/
enum perf_branch_sample_type_shift {
 PERF_SAMPLE_BRANCH_USER_SHIFT  = 0, /* user branches */
 PERF_SAMPLE_BRANCH_KERNEL_SHIFT  = 1, /* kernel branches */
 PERF_SAMPLE_BRANCH_HV_SHIFT  = 2, /* hypervisor branches */

 PERF_SAMPLE_BRANCH_ANY_SHIFT  = 3, /* any branch types */
 PERF_SAMPLE_BRANCH_ANY_CALL_SHIFT = 4, /* any call branch */
 PERF_SAMPLE_BRANCH_ANY_RETURN_SHIFT = 5, /* any return branch */
 PERF_SAMPLE_BRANCH_IND_CALL_SHIFT = 6, /* indirect calls */
 PERF_SAMPLE_BRANCH_ABORT_TX_SHIFT = 7, /* transaction aborts */
 PERF_SAMPLE_BRANCH_IN_TX_SHIFT  = 8, /* in transaction */
 PERF_SAMPLE_BRANCH_NO_TX_SHIFT  = 9, /* not in transaction */
 PERF_SAMPLE_BRANCH_COND_SHIFT  = 10, /* conditional branches */

 PERF_SAMPLE_BRANCH_CALL_STACK_SHIFT = 11, /* call/ret stack */
 PERF_SAMPLE_BRANCH_IND_JUMP_SHIFT = 12, /* indirect jumps */
 PERF_SAMPLE_BRANCH_CALL_SHIFT  = 13, /* direct call */

 PERF_SAMPLE_BRANCH_NO_FLAGS_SHIFT =
 14, /* no flags */
 PERF_SAMPLE_BRANCH_NO_CYCLES_SHIFT = 15, /* no cycles */

 PERF_SAMPLE_BRANCH_TYPE_SAVE_SHIFT = 16, /* save branch type */

 PERF_SAMPLE_BRANCH_HW_INDEX_SHIFT = 17, /* save low level index of raw branch records */
```

```
 PERF_SAMPLE_BRANCH_PRIV_SAVE_SHIFT = 18, /* save privilege mode */

 PERF_SAMPLE_BRANCH_COUNTERS_SHIFT = 19, /* save occurrences of events on a branch */

 PERF_SAMPLE_BRANCH_MAX_SHIFT  /* non-ABI */
};

enum perf_branch_sample_type {
 PERF_SAMPLE_BRANCH_USER  = 1U << PERF_SAMPLE_BRANCH_USER_SHIFT,
 PERF_SAMPLE_BRANCH_KERNEL = 1U << PERF_SAMPLE_BRANCH_KERNEL_SHIFT,
 PERF_SAMPLE_BRANCH_HV  = 1U << PERF_SAMPLE_BRANCH_HV_SHIFT,

 PERF_SAMPLE_BRANCH_ANY  = 1U << PERF_SAMPLE_BRANCH_ANY_SHIFT,
 PERF_SAMPLE_BRANCH_ANY_CALL = 1U << PERF_SAMPLE_BRANCH_ANY_CALL_SHIFT,
 PERF_SAMPLE_BRANCH_ANY_RETURN = 1U << PERF_SAMPLE_BRANCH_ANY_RETURN_SHIFT,
 PERF_SAMPLE_BRANCH_IND_CALL = 1U << PERF_SAMPLE_BRANCH_IND_CALL_SHIFT,
 PERF_SAMPLE_BRANCH_ABORT_TX =
 1U << PERF_SAMPLE_BRANCH_ABORT_TX_SHIFT,
 PERF_SAMPLE_BRANCH_IN_TX = 1U << PERF_SAMPLE_BRANCH_IN_TX_SHIFT,
 PERF_SAMPLE_BRANCH_NO_TX = 1U << PERF_SAMPLE_BRANCH_NO_TX_SHIFT,
 PERF_SAMPLE_BRANCH_COND  = 1U << PERF_SAMPLE_BRANCH_COND_SHIFT,

 PERF_SAMPLE_BRANCH_CALL_STACK = 1U << PERF_SAMPLE_BRANCH_CALL_STACK_SHIFT,
 PERF_SAMPLE_BRANCH_IND_JUMP = 1U << PERF_SAMPLE_BRANCH_IND_JUMP_SHIFT,
 PERF_SAMPLE_BRANCH_CALL  = 1U << PERF_SAMPLE_BRANCH_CALL_SHIFT,

 PERF_SAMPLE_BRANCH_NO_FLAGS = 1U << PERF_SAMPLE_BRANCH_NO_FLAGS_SHIFT,
 PERF_SAMPLE_BRANCH_NO_CYCLES = 1U << PERF_SAMPLE_BRANCH_NO_CYCLES_SHIFT,

 PERF_SAMPLE_BRANCH_TYPE_SAVE =
  1U << PERF_SAMPLE_BRANCH_TYPE_SAVE_SHIFT,

 PERF_SAMPLE_BRANCH_HW_INDEX = 1U << PERF_SAMPLE_BRANCH_HW_INDEX_SHIFT,

 PERF_SAMPLE_BRANCH_PRIV_SAVE = 1U << PERF_SAMPLE_BRANCH_PRIV_SAVE_SHIFT,

 PERF_SAMPLE_BRANCH_COUNTERS = 1U << PERF_SAMPLE_BRANCH_COUNTERS_SHIFT,

 PERF_SAMPLE_BRANCH_MAX  = 1U << PERF_SAMPLE_BRANCH_MAX_SHIFT,
};

/*
* Common flow change classification
 */
enum {
 PERF_BR_UNKNOWN  = 0, /* unknown */
 PERF_BR_COND  = 1, /* conditional */
```

```
 PERF_BR_UNCOND  = 2, /* unconditional  */
 PERF_BR_IND  = 3, /* indirect */
 PERF_BR_CALL  = 4, /* function call */
 PERF_BR_IND_CALL = 5, /* indirect function call */
 PERF_BR_RET  = 6, /* function return */
 PERF_BR_SYSCALL  = 7, /* syscall */
 PERF_BR_SYSRET  = 8, /* syscall return */
 PERF_BR_COND_CALL = 9, /* conditional function call */
 PERF_BR_COND_RET = 10, /* conditional function return */
 PERF_BR_ERET  = 11, /* exception return */
 PERF_BR_IRQ  = 12, /* irq */
 PERF_BR_SERROR  = 13, /* system error */
 PERF_BR_NO_TX  = 14, /* not in transaction */
 PERF_BR_EXTEND_ABI = 15, /* extend ABI */
 PERF_BR_MAX,
};

/*
* Common branch speculation outcome classification
*/
enum {
 PERF_BR_SPEC_NA   = 0, /* Not available */
 PERF_BR_SPEC_WRONG_PATH  = 1, /* Speculative but on wrong path */
 PERF_BR_NON_SPEC_CORRECT_PATH = 2, /* Non-speculative but on correct path */
 PERF_BR_SPEC_CORRECT_PATH =
 3, /* Speculative and on correct path */
 PERF_BR_SPEC_MAX,
};

enum {
 PERF_BR_NEW_FAULT_ALGN  = 0,    /* Alignment fault */
 PERF_BR_NEW_FAULT_DATA  = 1,    /* Data fault */
 PERF_BR_NEW_FAULT_INST  = 2,    /* Inst fault */
 PERF_BR_NEW_ARCH_1  = 3,    /* Architecture specific */
 PERF_BR_NEW_ARCH_2  = 4,    /* Architecture specific */
 PERF_BR_NEW_ARCH_3  = 5,    /* Architecture specific */
 PERF_BR_NEW_ARCH_4  = 6,    /* Architecture specific */
 PERF_BR_NEW_ARCH_5  = 7,    /* Architecture specific */
 PERF_BR_NEW_MAX,
};

enum {
 PERF_BR_PRIV_UNKNOWN = 0,
 PERF_BR_PRIV_USER = 1,
 PERF_BR_PRIV_KERNEL = 2,
 PERF_BR_PRIV_HV  = 3,
};
```

```
#define PERF_BR_ARM64_FIQ  PERF_BR_NEW_ARCH_1
#define PERF_BR_ARM64_DEBUG_HALT PERF_BR_NEW_ARCH_2
#define PERF_BR_ARM64_DEBUG_EXIT PERF_BR_NEW_ARCH_3
#define PERF_BR_ARM64_DEBUG_INST PERF_BR_NEW_ARCH_4
#define PERF_BR_ARM64_DEBUG_DATA PERF_BR_NEW_ARCH_5

#define PERF_SAMPLE_BRANCH_PLM_ALL \
 (PERF_SAMPLE_BRANCH_USER|\
  PERF_SAMPLE_BRANCH_KERNEL|\

 PERF_SAMPLE_BRANCH_HV)

/*
* Values to determine ABI of the registers dump.
*/
enum perf_sample_regs_abi {
 PERF_SAMPLE_REGS_ABI_NONE = 0,
 PERF_SAMPLE_REGS_ABI_32  = 1,
 PERF_SAMPLE_REGS_ABI_64  = 2,
};

/*
* Values for the memory transaction event qualifier, mostly for
* abort events. Multiple bits can be set.
*/
enum {
 PERF_TXN_ELISION        = (1 << 0), /* From elision */
 PERF_TXN_TRANSACTION    = (1 << 1), /* From transaction */
 PERF_TXN_SYNC           = (1 << 2), /* Instruction is related */
 PERF_TXN_ASYNC          = (1 << 3), /* Instruction not related */
 PERF_TXN_RETRY          = (1 << 4), /* Retry possible */
 PERF_TXN_CONFLICT       = (1 << 5), /* Conflict abort */
 PERF_TXN_CAPACITY_WRITE = (1 << 6), /* Capacity write abort */
 PERF_TXN_CAPACITY_READ  = (1 << 7), /* Capacity read abort */

 PERF_TXN_MAX        = (1 << 8), /* non-ABI */

 /* bits 32..63 are reserved for the abort code */

 PERF_TXN_ABORT_MASK  = (0xffffffffULL << 32),
 PERF_TXN_ABORT_SHIFT =
 32,
};

/*
* The format of the data returned by read() on a perf event fd,
* as specified by attr.read_format:
*
```

```
* struct read_format {
* { u64  value;
*   { u64  time_enabled; } && PERF_FORMAT_TOTAL_TIME_ENABLED
*   { u64  time_running; } && PERF_FORMAT_TOTAL_TIME_RUNNING
*   { u64  id;           } && PERF_FORMAT_ID
*   { u64  lost;         } && PERF_FORMAT_LOST
* } && !PERF_FORMAT_GROUP
*
* { u64  nr;
*   { u64  time_enabled; } && PERF_FORMAT_TOTAL_TIME_ENABLED
*   { u64  time_running; } && PERF_FORMAT_TOTAL_TIME_RUNNING
*   { u64  value;
*     { u64 id;           } && PERF_FORMAT_ID
*     { u64 lost;         } && PERF_FORMAT_LOST
*   }  cntr[nr];
* } && PERF_FORMAT_GROUP
* };
*/
enum perf_event_read_format {
 PERF_FORMAT_TOTAL_TIME_ENABLED  = 1U << 0,
 PERF_FORMAT_TOTAL_TIME_RUNNING  = 1U << 1,
 PERF_FORMAT_ID    = 1U << 2,
 PERF_FORMAT_GROUP   = 1U << 3,
 PERF_FORMAT_LOST   = 1U << 4,

 PERF_FORMAT_MAX = 1U << 5,  /* non-ABI */
};

#define PERF_ATTR_SIZE_VER0 64 /*
 sizeof first published struct */
#define PERF_ATTR_SIZE_VER1 72 /* add: config2 */
#define PERF_ATTR_SIZE_VER2 80 /* add: branch_sample_type */
#define PERF_ATTR_SIZE_VER3 96 /* add: sample_regs_user */
     /* add: sample_stack_user */
#define PERF_ATTR_SIZE_VER4 104 /* add: sample_regs_intr */
#define PERF_ATTR_SIZE_VER5 112 /* add: aux_watermark */
#define PERF_ATTR_SIZE_VER6 120 /* add: aux_sample_size */
#define PERF_ATTR_SIZE_VER7 128 /* add: sig_data */
#define PERF_ATTR_SIZE_VER8 136 /* add: config3 */

/*
* Hardware event_id to monitor via a performance monitoring event:
*
* @sample_max_stack: Max number of frame pointers in a callchain,
*        should be < /proc/sys/kernel/perf_event_max_stack
*/
struct perf_event_attr {
```

```
/*
 * Major type: hardware/software/tracepoint/etc.
 */
__u32   type;

/*
 * Size of the attr structure, for fwd/bwd compat.
 */
__u32   size;

/*
 * Type specific configuration information.
 */
__u64   config;

union {
 __u64  sample_period;
 __u64  sample_freq;
};

__u64   sample_type;
__u64   read_format;

__u64   disabled
      :  1, /* off by default        */
   inherit       :  1, /* children inherit it   */
   pinned        :  1, /* must always be on PMU */
   exclusive     :  1, /* only group on PMU     */
   exclude_user  :  1, /* don't count user      */
   exclude_kernel :  1, /* ditto kernel          */
   exclude_hv    :  1, /* ditto hypervisor      */
   exclude_idle  :  1, /* don't count when idle */
   mmap          :  1, /* include mmap data     */
   comm          :  1, /* include comm data     */
   freq          :  1, /* use freq, not period  */
   inherit_stat  :  1, /* per task counts       */
   enable_on_exec :  1, /* next exec enables     */
   task          :  1, /* trace fork/exit       */
   watermark     :  1, /* wakeup_watermark      */
   /*
    * precise_ip:
    *
    *  0 - SAMPLE_IP can have arbitrary skid
    *  1 - SAMPLE_IP must have constant skid

*  2 - SAMPLE_IP requested to have 0 skid
    *  3 - SAMPLE_IP must have 0 skid
    *
```

```
   *  See also PERF_RECORD_MISC_EXACT_IP
   */
   precise_ip     :  2, /* skid constraint       */
   mmap_data      :  1, /* non-exec mmap data    */
   sample_id_all  :  1, /* sample_type all events */

   exclude_host   :  1, /* don't count in host   */
   exclude_guest  :  1, /* don't count in guest  */

   exclude_callchain_kernel : 1, /* exclude kernel callchains */
   exclude_callchain_user   : 1, /* exclude user callchains */
   mmap2          :  1, /* include mmap with inode data     */
   comm_exec      :  1, /* flag comm events that are due to an exec */
   use_clockid    :  1, /* use @clockid for time fields */
   context_switch :  1, /* context switch data */
   write_backward :  1, /* Write ring buffer from end to beginning */
   namespaces     :  1, /* include namespaces data */
   ksymbol        :  1, /* include ksymbol events */
   bpf_event      :  1, /*
include bpf events */
   aux_output     :  1, /* generate AUX records instead of events */
   cgroup         :  1, /* include cgroup events */
   text_poke      :  1, /* include text poke events */
   build_id       :  1, /* use build id in mmap2 events */
   inherit_thread :  1, /* children only inherit if cloned with CLONE_THREAD */
   remove_on_exec :  1, /* event is removed from task on exec */
   sigtrap        :  1, /* send synchronous SIGTRAP on event */
   __reserved_1   : 26;

union {
 __u32  wakeup_events;   /* wakeup every n events */
 __u32  wakeup_watermark; /* bytes before wakeup   */
};

__u32   bp_type;
union {
 __u64  bp_addr;
 __u64  kprobe_func; /* for perf_kprobe */
 __u64  uprobe_path; /* for perf_uprobe */
 __u64  config1; /* extension of config */
};
union {
 __u64  bp_len;
 __u64  kprobe_addr; /* when kprobe_func == NULL */
 __u64  probe_offset; /* for perf_[k,u]probe */
 __u64  config2; /* extension of config1 */
};
__u64 branch_sample_type;
```

```
/* enum perf_branch_sample_type */

/*
 * Defines set of user regs to dump on samples.
 * See asm/perf_regs.h for details.
 */
__u64 sample_regs_user;

/*
 * Defines size of the user stack to dump on samples.
 */
__u32 sample_stack_user;

__s32 clockid;
/*
 * Defines set of regs to dump for each sample
 * state captured on:
 *  - precise = 0: PMU interrupt
 *  - precise > 0: sampled instruction
 *
 * See asm/perf_regs.h for details.
 */
__u64 sample_regs_intr;

/*
 * Wakeup watermark for AUX area
 */
__u32 aux_watermark;
__u16 sample_max_stack;
__u16 __reserved_2;
__u32 aux_sample_size;
__u32 __reserved_3;

/*
 * User provided data if sigtrap=1, passed back to user via
 * siginfo_t::si_perf_data, e.g. to permit user to identify the event.
 * Note, siginfo_t::si_perf_data is long-sized, and sig_data will be
 * truncated accordingly on 32 bit architectures.
 */
__u64 sig_data;

__u64 config3; /* extension of config2 */
};

/*
* Structure used by
 below PERF_EVENT_IOC_QUERY_BPF command
* to query bpf programs attached to the same perf tracepoint
```

```
* as the given perf event.
*/
struct perf_event_query_bpf {
 /*
  * The below ids array length
  */
 __u32 ids_len;
 /*
  * Set by the kernel to indicate the number of
  * available programs
  */
 __u32 prog_cnt;
 /*
  * User provided buffer to store program ids
  */
 __u32 ids[];
};

/*
* Ioctls that can be done on a perf event fd:
*/
#define PERF_EVENT_IOC_ENABLE   _IO ('$', 0)
#define PERF_EVENT_IOC_DISABLE   _IO ('$', 1)
#define PERF_EVENT_IOC_REFRESH   _IO ('$', 2)
#define PERF_EVENT_IOC_RESET   _IO ('$', 3)
#define PERF_EVENT_IOC_PERIOD   _IOW('$', 4, __u64)
#define PERF_EVENT_IOC_SET_OUTPUT  _IO ('$', 5)
#define PERF_EVENT_IOC_SET_FILTER  _IOW('$', 6, char *)
#define PERF_EVENT_IOC_ID   _IOR('$', 7, __u64 *)
#define PERF_EVENT_IOC_SET_BPF   _IOW('$', 8, __u32)
#define PERF_EVENT_IOC_PAUSE_OUTPUT  _IOW('$', 9, __u32)
#define PERF_EVENT_IOC_QUERY_BPF  _IOWR('$', 10, struct perf_event_query_bpf
 *)
#define PERF_EVENT_IOC_MODIFY_ATTRIBUTES _IOW('$', 11, struct perf_event_attr *)

enum perf_event_ioc_flags {
 PERF_IOC_FLAG_GROUP  = 1U << 0,
};

/*
* Structure of the page that can be mapped via mmap
*/
struct perf_event_mmap_page {
 __u32 version;  /* version number of this structure */
 __u32 compat_version;  /* lowest version this is compat with */

 /*
  * Bits needed to read the hw events in user-space.
```

```
 *
 *   u32 seq, time_mult, time_shift, index, width;
 *   u64 count, enabled, running;
 *   u64 cyc, time_offset;
 *   s64 pmc = 0;
 *
 *   do {
 *     seq = pc->lock;
 *     barrier()
 *
 *     enabled = pc->time_enabled;
 *     running = pc->time_running;
 *
 *     if (pc->cap_usr_time && enabled != running) {
 *       cyc = rdtsc();
 *       time_offset = pc->time_offset;
 *       time_mult   = pc->time_mult;
 *       time_shift  = pc->time_shift;
 *     }
 *
 *     index = pc->index;
 *     count = pc->offset;
 *     if (pc->cap_user_rdpmc
&& index) {
 *       width = pc->pmc_width;
 *       pmc = rdpmc(index - 1);
 *     }
 *
 *     barrier();
 *   } while (pc->lock != seq);
 *
 * NOTE: for obvious reason this only works on self-monitoring
 *       processes.
 */
__u32 lock;   /* seqlock for synchronization */
__u32 index;   /* hardware event identifier */
__s64 offset;   /* add to hardware event value */
__u64 time_enabled;  /* time event active */
__u64 time_running;  /* time event on cpu */
union {
 __u64 capabilities;
 struct {
  __u64 cap_bit0  : 1, /* Always 0, deprecated, see commit 860f085b74e9 */
   cap_bit0_is_deprecated : 1, /* Always 1, signals that bit 0 is zero */

   cap_user_rdpmc  : 1, /* The RDPMC instruction can be used to read counts */
   cap_user_time  : 1, /* The time_{shift,mult,offset} fields are used */
   cap_user_time_zero : 1, /* The time_zero field is used */
```

```
   cap_user_time_short : 1, /* the time_{cycle,mask} fields are used */
   cap______res  : 58;
 };
};

/*

* If cap_user_rdpmc this field provides the bit-width of the value
 * read using the rdpmc() or equivalent instruction. This can be used
 * to sign extend the result like:
 *
 *   pmc <<= 64 - width;
 *   pmc >>= 64 - width; // signed shift right
 *   count += pmc;
 */
__u16 pmc_width;

/*
 * If cap_usr_time the below fields can be used to compute the time
 * delta since time_enabled (in ns) using rdtsc or similar.
 *
 *   u64 quot, rem;
 *   u64 delta;
 *
 *   quot = (cyc >> time_shift);
 *   rem = cyc & (((u64)1 << time_shift) - 1);
 *   delta = time_offset + quot * time_mult +
 *             ((rem * time_mult) >> time_shift);
 *
 * Where time_offset,time_mult,time_shift and cyc are read in the
 * seqcount loop described above. This delta can then be added to
 * enabled and possible running (if index), improving the scaling:
 *
 *   enabled += delta;
 *   if (index)
 *     running += delta;
 *
 *   quot = count / running;
 *   rem  = count
% running;
 *   count = quot * enabled + (rem * enabled) / running;
 */
__u16 time_shift;
__u32 time_mult;
__u64 time_offset;
/*
 * If cap_usr_time_zero, the hardware clock (e.g. TSC) can be calculated
 * from sample timestamps.
```

```
 *
 *   time = timestamp - time_zero;
 *   quot = time / time_mult;
 *   rem  = time % time_mult;
 *   cyc = (quot << time_shift) + (rem << time_shift) / time_mult;
 *
 * And vice versa:
 *
 *   quot = cyc >> time_shift;
 *   rem  = cyc & (((u64)1 << time_shift) - 1);
 *   timestamp = time_zero + quot * time_mult +
 *               ((rem * time_mult) >> time_shift);
 */
__u64 time_zero;

__u32 size;   /* Header size up to __reserved[] fields. */
__u32 __reserved_1;

/*
 * If cap_usr_time_short, the hardware clock is less than 64bit wide
 * and we must compute the 'cyc' value, as used by cap_usr_time, as:
 *
 *   cyc = time_cycles + ((cyc - time_cycles) & time_mask)
 *
 * NOTE: this form is explicitly chosen such that cap_usr_time_short

*       is a correction on top of cap_usr_time, and code that doesn't
 *       know about cap_usr_time_short still works under the assumption
 *       the counter doesn't wrap.
 */
__u64 time_cycles;
__u64 time_mask;

 /*
  * Hole for extension of the self monitor capabilities
  */

__u8 __reserved[116*8]; /* align to 1k. */

/*
 * Control data for the mmap() data buffer.
 *
 * User-space reading the @data_head value should issue an smp_rmb(),
 * after reading this value.
 *
 * When the mapping is PROT_WRITE the @data_tail value should be
 * written by userspace to reflect the last read data, after issueing
 * an smp_mb() to separate the data read from the ->data_tail store.
```

```
 * In this case the kernel will not over-write unread data.
 *
 * See perf_output_put_handle() for the data ordering.
 *
 * data_{offset,size} indicate the location and size of the perf record
 * buffer within the mmapped area.
 */
 __u64   data_head;  /* head in the data section */
 __u64 data_tail;  /*
 user-space written tail */
 __u64 data_offset;  /* where the buffer starts */
 __u64 data_size;  /* data buffer size */

 /*
 * AUX area is defined by aux_{offset,size} fields that should be set
 * by the userspace, so that
 *
 *   aux_offset >= data_offset + data_size
 *
 * prior to mmap()ing it. Size of the mmap()ed area should be aux_size.
 *
 * Ring buffer pointers aux_{head,tail} have the same semantics as
 * data_{head,tail} and same ordering rules apply.
 */
 __u64 aux_head;
 __u64 aux_tail;
 __u64 aux_offset;
 __u64 aux_size;
};

/*
* The current state of perf_event_header::misc bits usage:
* ('|' used bit, '-' unused bit)
*
*  012         CDEF
*  |||---------||||
*
*  Where:
*    0-2     CPUMODE_MASK
*
*    C       PROC_MAP_PARSE_TIMEOUT
*    D       MMAP_DATA / COMM_EXEC / FORK_EXEC / SWITCH_OUT
*    E       MMAP_BUILD_ID / EXACT_IP / SCHED_OUT_PREEMPT
*    F       (reserved)
*/

#define PERF_RECORD_MISC_CPUMODE_MASK  (7 << 0)
#define
```

```
 PERF_RECORD_MISC_CPUMODE_UNKNOWN (0 << 0)
#define PERF_RECORD_MISC_KERNEL   (1 << 0)
#define PERF_RECORD_MISC_USER   (2 << 0)
#define PERF_RECORD_MISC_HYPERVISOR  (3 << 0)
#define PERF_RECORD_MISC_GUEST_KERNEL  (4 << 0)
#define PERF_RECORD_MISC_GUEST_USER  (5 << 0)

/*
* Indicates that /proc/PID/maps parsing are truncated by time out.
*/
#define PERF_RECORD_MISC_PROC_MAP_PARSE_TIMEOUT (1 << 12)
/*
* Following PERF_RECORD_MISC_* are used on different
* events, so can reuse the same bit position:
*
*   PERF_RECORD_MISC_MMAP_DATA  - PERF_RECORD_MMAP* events
*   PERF_RECORD_MISC_COMM_EXEC  - PERF_RECORD_COMM event
*   PERF_RECORD_MISC_FORK_EXEC  - PERF_RECORD_FORK event (perf internal)
*   PERF_RECORD_MISC_SWITCH_OUT - PERF_RECORD_SWITCH* events
*/
#define PERF_RECORD_MISC_MMAP_DATA  (1 << 13)
#define PERF_RECORD_MISC_COMM_EXEC  (1 << 13)
#define PERF_RECORD_MISC_FORK_EXEC  (1 << 13)
#define PERF_RECORD_MISC_SWITCH_OUT  (1 << 13)
/*
* These PERF_RECORD_MISC_* flags below
 are safely reused
* for the following events:
*
*   PERF_RECORD_MISC_EXACT_IP           - PERF_RECORD_SAMPLE of precise events
*   PERF_RECORD_MISC_SWITCH_OUT_PREEMPT - PERF_RECORD_SWITCH* events
*   PERF_RECORD_MISC_MMAP_BUILD_ID      - PERF_RECORD_MMAP2 event
*
*
* PERF_RECORD_MISC_EXACT_IP:
*   Indicates that the content of PERF_SAMPLE_IP points to
*   the actual instruction that triggered the event. See also
*   perf_event_attr::precise_ip.
*
* PERF_RECORD_MISC_SWITCH_OUT_PREEMPT:
*   Indicates that thread was preempted in TASK_RUNNING state.
*
* PERF_RECORD_MISC_MMAP_BUILD_ID:
*   Indicates that mmap2 event carries build id data.
*/
#define PERF_RECORD_MISC_EXACT_IP  (1 << 14)
#define PERF_RECORD_MISC_SWITCH_OUT_PREEMPT (1 << 14)
#define PERF_RECORD_MISC_MMAP_BUILD_ID  (1 << 14)
```

```
/*
* Reserve the last bit to indicate some extended misc field
*/
#define PERF_RECORD_MISC_EXT_RESERVED  (1 << 15)

struct perf_event_header {
 __u32 type;
 __u16 misc;
 __u16 size;
};

struct
 perf_ns_link_info {
 __u64 dev;
 __u64 ino;
};

enum {
 NET_NS_INDEX  = 0,
 UTS_NS_INDEX  = 1,
 IPC_NS_INDEX  = 2,
 PID_NS_INDEX  = 3,
 USER_NS_INDEX  = 4,
 MNT_NS_INDEX  = 5,
 CGROUP_NS_INDEX  = 6,

 NR_NAMESPACES,  /* number of available namespaces */
};

enum perf_event_type {

 /*
  * If perf_event_attr.sample_id_all is set then all event types will
  * have the sample_type selected fields related to where/when
  * (identity) an event took place (TID, TIME, ID, STREAM_ID, CPU,
  * IDENTIFIER) described in PERF_RECORD_SAMPLE below, it will be stashed
  * just after the perf_event_header and the fields already present for
  * the existing fields, i.e. at the end of the payload. That way a newer
  * perf.data file will be supported by older perf tools, with these new
  * optional fields being ignored.
  *
  * struct sample_id {
  *  { u32   pid, tid; } && PERF_SAMPLE_TID
  *  { u64   time;     } && PERF_SAMPLE_TIME
  *  { u64   id;       } && PERF_SAMPLE_ID
  *  { u64   stream_id;}
 && PERF_SAMPLE_STREAM_ID
  *  { u32   cpu, res; } && PERF_SAMPLE_CPU
```

```
 * { u64   id;   } && PERF_SAMPLE_IDENTIFIER
 * } && perf_event_attr::sample_id_all
 *
 * Note that PERF_SAMPLE_IDENTIFIER duplicates PERF_SAMPLE_ID.  The
 * advantage of PERF_SAMPLE_IDENTIFIER is that its position is fixed
 * relative to header.size.
 */

/*
 * The MMAP events record the PROT_EXEC mappings so that we can
 * correlate userspace IPs to code. They have the following structure:
 *
 * struct {
 * struct perf_event_header header;
 *
 * u32    pid, tid;
 * u64    addr;
 * u64    len;
 * u64    pgoff;
 * char    filename[];
 *  struct sample_id  sample_id;
 * };
 */
PERF_RECORD_MMAP   = 1,

/*
 * struct {
 * struct perf_event_header header;
 * u64    id;
 * u64    lost;
 *  struct sample_id  sample_id;
 * };
 */
PERF_RECORD_LOST   = 2,

/*
 * struct {
 * struct perf_event_header header;
 *
 * u32    pid, tid;
 * char    comm[];
 *  struct sample_id  sample_id;
 *
};
 */
PERF_RECORD_COMM   = 3,

/*
```

```
 * struct {
 * struct perf_event_header header;
 * u32    pid, ppid;
 * u32    tid, ptid;
 * u64    time;
 *  struct sample_id  sample_id;
 * };
 */
PERF_RECORD_EXIT   = 4,

/*
 * struct {
 * struct perf_event_header header;
 * u64    time;
 * u64    id;
 * u64    stream_id;
 *  struct sample_id  sample_id;
 * };
 */
PERF_RECORD_THROTTLE   = 5,
PERF_RECORD_UNTHROTTLE   = 6,

/*
 * struct {
 * struct perf_event_header header;
 * u32    pid, ppid;
 * u32    tid, ptid;
 * u64    time;
 *  struct sample_id  sample_id;
 * };
 */
PERF_RECORD_FORK   = 7,

/*
 * struct {
 * struct perf_event_header header;
 * u32    pid, tid;
 *
 * struct read_format  values;
 *  struct sample_id  sample_id;
 * };
 */
PERF_RECORD_READ   = 8,

/*
 * struct {
 * struct perf_event_header header;
 *
```

```
 * #
 * # Note that PERF_SAMPLE_IDENTIFIER duplicates PERF_SAMPLE_ID.
 * # The advantage of PERF_SAMPLE_IDENTIFIER is that its position

* # is fixed relative to header.
 * #
 *
 * { u64   id;   } && PERF_SAMPLE_IDENTIFIER
 * { u64   ip;   } && PERF_SAMPLE_IP
 * { u32   pid, tid; } && PERF_SAMPLE_TID
 * { u64   time;     } && PERF_SAMPLE_TIME
 * { u64   addr;     } && PERF_SAMPLE_ADDR
 * { u64   id;   } && PERF_SAMPLE_ID
 * { u64   stream_id;} && PERF_SAMPLE_STREAM_ID
 * { u32   cpu, res; } && PERF_SAMPLE_CPU
 * { u64   period;   } && PERF_SAMPLE_PERIOD
 *
 * { struct read_format values;   } && PERF_SAMPLE_READ
 *
 * { u64   nr,
 *   u64   ips[nr];  } && PERF_SAMPLE_CALLCHAIN
 *
 * #
 * # The RAW record below is opaque data wrt the ABI
 * #
 * # That is, the ABI doesn't make any promises wrt to
 * # the stability of its content, it may vary depending
 * # on event, hardware, kernel version and phase of
 * # the moon.
 * #
 * # In other words, PERF_SAMPLE_RAW contents are not an ABI.
 * #
 *
 * { u32   size;
 *   char                  data[size];}&& PERF_SAMPLE_RAW
 *
 * { u64
          nr;
 *   { u64 hw_idx; } && PERF_SAMPLE_BRANCH_HW_INDEX
 *       { u64 from, to, flags } lbr[nr];
 *       #
 *       # The format of the counters is decided by the
 *       # "branch_counter_nr" and "branch_counter_width",
 *       # which are defined in the ABI.
 *       #
 *       { u64 counters; } cntr[nr] && PERF_SAMPLE_BRANCH_COUNTERS
 *      } && PERF_SAMPLE_BRANCH_STACK
 *
```

```
 *  { u64   abi; # enum perf_sample_regs_abi
 *    u64   regs[weight(mask)]; } && PERF_SAMPLE_REGS_USER
 *
 *  { u64   size;
 *    char   data[size];
 *    u64   dyn_size; } && PERF_SAMPLE_STACK_USER
 *
 * { union perf_sample_weight
 *  {
 *  u64  full; && PERF_SAMPLE_WEIGHT
 * #if defined(__LITTLE_ENDIAN_BITFIELD)
 *  struct {
 *   u32 var1_dw;
 *   u16 var2_w;
 *   u16 var3_w;
 *  } && PERF_SAMPLE_WEIGHT_STRUCT
 * #elif defined(__BIG_ENDIAN_BITFIELD)
 *  struct {
 *   u16 var3_w;
 *   u16 var2_w;
 *   u32 var1_dw;
 *  } && PERF_SAMPLE_WEIGHT_STRUCT
 * #endif

*  }
 * }
 * { u64   data_src; } && PERF_SAMPLE_DATA_SRC
 * { u64   transaction; } && PERF_SAMPLE_TRANSACTION
 * { u64   abi; # enum perf_sample_regs_abi
 *   u64   regs[weight(mask)]; } && PERF_SAMPLE_REGS_INTR
 * { u64   phys_addr;} && PERF_SAMPLE_PHYS_ADDR
 * { u64   size;
 *   char   data[size]; } && PERF_SAMPLE_AUX
 * { u64   data_page_size;} && PERF_SAMPLE_DATA_PAGE_SIZE
 * { u64   code_page_size;} && PERF_SAMPLE_CODE_PAGE_SIZE
 * };
 */
PERF_RECORD_SAMPLE   = 9,

/*
 * The MMAP2 records are an augmented version of MMAP, they add
 * maj, min, ino numbers to be used to uniquely identify each mapping
 *
 * struct {
 * struct perf_event_header header;
 *
 * u32    pid, tid;
 * u64    addr;
```

```
 * u64    len;
 * u64    pgoff;
 * union {
 *  struct {
 *   u32  maj;
 *   u32  min;
 *   u64  ino;
 *   u64  ino_generation;
 *  };
 *  struct {
 *   u8  build_id_size;
 *   u8  __reserved_1;
 *   u16  __reserved_2;
 *   u8  build_id[20];
 *  };
 * };

* u32    prot, flags;
 * char    filename[];
 *  struct sample_id  sample_id;
 * };
 */
PERF_RECORD_MMAP2   = 10,

/*
 * Records that new data landed in the AUX buffer part.
 *
 * struct {
 *  struct perf_event_header header;
 *
 *  u64    aux_offset;
 *  u64    aux_size;
 * u64    flags;
 *  struct sample_id  sample_id;
 * };
 */
PERF_RECORD_AUX    = 11,

/*
 * Indicates that instruction trace has started
 *
 * struct {
 * struct perf_event_header header;
 * u32    pid;
 * u32    tid;
 * struct sample_id  sample_id;
 * };
 */
```

```
PERF_RECORD_ITRACE_START  = 12,

/*
 * Records the dropped/lost sample number.
 *
 * struct {
 * struct perf_event_header header;
 *
 * u64    lost;
 * struct sample_id  sample_id;
 * };
 */
PERF_RECORD_LOST_SAMPLES  = 13,

/*
 * Records a context switch in or out (flagged by
 * PERF_RECORD_MISC_SWITCH_OUT). See also
 * PERF_RECORD_SWITCH_CPU_WIDE.
 *
 * struct {
 * struct perf_event_header header;
 * struct sample_id  sample_id;

* };
 */
PERF_RECORD_SWITCH   = 14,

/*
 * CPU-wide version of PERF_RECORD_SWITCH with next_prev_pid and
 * next_prev_tid that are the next (switching out) or previous
 * (switching in) pid/tid.
 *
 * struct {
 * struct perf_event_header header;
 * u32    next_prev_pid;
 * u32    next_prev_tid;
 * struct sample_id  sample_id;
 * };
 */
PERF_RECORD_SWITCH_CPU_WIDE  = 15,

/*
 * struct {
 * struct perf_event_header header;
 * u32    pid;
 * u32    tid;
 * u64    nr_namespaces;
 * { u64    dev, inode; } [nr_namespaces];
```

```
 * struct sample_id  sample_id;
 * };
 */
PERF_RECORD_NAMESPACES   = 16,

/*
 * Record ksymbol register/unregister events:
 *
 * struct {
 * struct perf_event_header header;
 * u64    addr;
 * u32    len;
 * u16    ksym_type;
 * u16    flags;
 * char    name[];
 * struct sample_id  sample_id;
 * };
 */
PERF_RECORD_KSYMBOL   = 17,

/*
 * Record bpf events:
 *  enum perf_bpf_event_type {
 * PERF_BPF_EVENT_UNKNOWN  =
0,
 * PERF_BPF_EVENT_PROG_LOAD = 1,
 * PERF_BPF_EVENT_PROG_UNLOAD = 2,
 *  };
 *
 * struct {
 * struct perf_event_header header;
 * u16    type;
 * u16    flags;
 * u32    id;
 * u8    tag[BPF_TAG_SIZE];
 * struct sample_id  sample_id;
 * };
 */
PERF_RECORD_BPF_EVENT   = 18,

/*
 * struct {
 * struct perf_event_header header;
 * u64    id;
 * char    path[];
 * struct sample_id  sample_id;
 * };
 */
```

```
 PERF_RECORD_CGROUP   = 19,

 /*
  * Records changes to kernel text i.e. self-modified code. 'old_len' is
  * the number of old bytes, 'new_len' is the number of new bytes. Either
  * 'old_len' or 'new_len' may be zero to indicate, for example, the
  * addition or removal of a trampoline. 'bytes' contains the old bytes
  * followed immediately by the new bytes.
  *
  * struct {
  * struct perf_event_header header;
  * u64    addr;
  * u16    old_len;
  * u16    new_len;
  * u8    bytes[];
  * struct sample_id  sample_id;
  * };
  */
 PERF_RECORD_TEXT_POKE   = 20,

 /*

 * Data written to the AUX area by hardware due to aux_output, may need
  * to be matched to the event by an architecture-specific hardware ID.
  * This records the hardware ID, but requires sample_id to provide the
  * event ID. e.g. Intel PT uses this record to disambiguate PEBS-via-PT
  * records from multiple events.
  *
  * struct {
  * struct perf_event_header header;
  * u64    hw_id;
  * struct sample_id  sample_id;
  * };
  */
 PERF_RECORD_AUX_OUTPUT_HW_ID  = 21,

 PERF_RECORD_MAX,   /* non-ABI */
};

enum perf_record_ksymbol_type {
 PERF_RECORD_KSYMBOL_TYPE_UNKNOWN = 0,
 PERF_RECORD_KSYMBOL_TYPE_BPF  = 1,
 /*
  * Out of line code such as kprobe-replaced instructions or optimized
  * kprobes or ftrace trampolines.
  */
 PERF_RECORD_KSYMBOL_TYPE_OOL  = 2,
 PERF_RECORD_KSYMBOL_TYPE_MAX  /* non-ABI */
```

```
};

#define PERF_RECORD_KSYMBOL_FLAGS_UNREGISTER (1 << 0)

enum perf_bpf_event_type {
 PERF_BPF_EVENT_UNKNOWN  = 0,
 PERF_BPF_EVENT_PROG_LOAD = 1,
 PERF_BPF_EVENT_PROG_UNLOAD =
 2,
 PERF_BPF_EVENT_MAX,  /* non-ABI */
};

#define PERF_MAX_STACK_DEPTH  127
#define PERF_MAX_CONTEXTS_PER_STACK   8

enum perf_callchain_context {
 PERF_CONTEXT_HV   = (__u64)-32,
 PERF_CONTEXT_KERNEL  = (__u64)-128,
 PERF_CONTEXT_USER  = (__u64)-512,

 PERF_CONTEXT_GUEST  = (__u64)-2048,
 PERF_CONTEXT_GUEST_KERNEL = (__u64)-2176,
 PERF_CONTEXT_GUEST_USER  = (__u64)-2560,

 PERF_CONTEXT_MAX  = (__u64)-4095,
};

/**
* PERF_RECORD_AUX::flags bits
*/
#define PERF_AUX_FLAG_TRUNCATED   0x01 /* record was truncated to fit */
#define PERF_AUX_FLAG_OVERWRITE   0x02 /* snapshot from overwrite mode */
#define PERF_AUX_FLAG_PARTIAL   0x04 /* record contains gaps */
#define PERF_AUX_FLAG_COLLISION   0x08 /* sample collided with another */
#define PERF_AUX_FLAG_PMU_FORMAT_TYPE_MASK 0xff00 /* PMU specific trace format type */

/* CoreSight PMU AUX buffer formats */
#define PERF_AUX_FLAG_CORESIGHT_FORMAT_CORESIGHT 0x0000 /* Default for backward compatibility
*/
#define PERF_AUX_FLAG_CORESIGHT_FORMAT_RAW  0x0100
 /* Raw format of the source */

#define PERF_FLAG_FD_NO_GROUP  (1UL << 0)
#define PERF_FLAG_FD_OUTPUT  (1UL << 1)
#define PERF_FLAG_PID_CGROUP  (1UL << 2) /* pid=cgroup id, per-cpu mode only */
#define PERF_FLAG_FD_CLOEXEC  (1UL << 3) /* O_CLOEXEC */

#if defined(__LITTLE_ENDIAN_BITFIELD)
```

```
union perf_mem_data_src {
 __u64 val;
 struct {
  __u64   mem_op:5, /* type of opcode */
   mem_lvl:14, /* memory hierarchy level */
   mem_snoop:5, /* snoop mode */
   mem_lock:2, /* lock instr */
   mem_dtlb:7, /* tlb access */
   mem_lvl_num:4, /* memory hierarchy level number */
   mem_remote:1,   /* remote */
   mem_snoopx:2, /* snoop mode, ext */
   mem_blk:3, /* access blocked */
   mem_hops:3, /* hop level */
   mem_rsvd:18;
 };
};
#elif defined(__BIG_ENDIAN_BITFIELD)
union perf_mem_data_src {
 __u64 val;
 struct {
  __u64 mem_rsvd:18,
   mem_hops:3, /* hop level */
   mem_blk:3, /* access blocked */
   mem_snoopx:2, /* snoop mode, ext */
   mem_remote:1,   /* remote */
   mem_lvl_num:4, /*
 memory hierarchy level number */
   mem_dtlb:7, /* tlb access */
   mem_lock:2, /* lock instr */
   mem_snoop:5, /* snoop mode */
   mem_lvl:14, /* memory hierarchy level */
   mem_op:5; /* type of opcode */
 };
};
#else
#error "Unknown endianness"
#endif

/* type of opcode (load/store/prefetch,code) */
#define PERF_MEM_OP_NA  0x01 /* not available */
#define PERF_MEM_OP_LOAD 0x02 /* load instruction */
#define PERF_MEM_OP_STORE 0x04 /* store instruction */
#define PERF_MEM_OP_PFETCH 0x08 /* prefetch */
#define PERF_MEM_OP_EXEC 0x10 /* code (execution) */
#define PERF_MEM_OP_SHIFT 0

/*
* PERF_MEM_LVL_* namespace being depricated to some extent in the
```

```
* favour of newer composite PERF_MEM_{LVLNUM_,REMOTE_,SNOOPX_} fields.
* Supporting this namespace inorder to not break defined ABIs.
*
* memory hierarchy (memory level, hit or miss)
*/
#define PERF_MEM_LVL_NA  0x01  /* not available */
#define PERF_MEM_LVL_HIT 0x02  /* hit level */
#define PERF_MEM_LVL_MISS 0x04  /* miss
 level  */
#define PERF_MEM_LVL_L1  0x08  /* L1 */
#define PERF_MEM_LVL_LFB 0x10  /* Line Fill Buffer */
#define PERF_MEM_LVL_L2  0x20  /* L2 */
#define PERF_MEM_LVL_L3  0x40  /* L3 */
#define PERF_MEM_LVL_LOC_RAM 0x80  /* Local DRAM */
#define PERF_MEM_LVL_REM_RAM1 0x100 /* Remote DRAM (1 hop) */
#define PERF_MEM_LVL_REM_RAM2 0x200 /* Remote DRAM (2 hops) */
#define PERF_MEM_LVL_REM_CCE1 0x400 /* Remote Cache (1 hop) */
#define PERF_MEM_LVL_REM_CCE2 0x800 /* Remote Cache (2 hops) */
#define PERF_MEM_LVL_IO  0x1000 /* I/O memory */
#define PERF_MEM_LVL_UNC 0x2000 /* Uncached memory */
#define PERF_MEM_LVL_SHIFT 5

#define PERF_MEM_REMOTE_REMOTE 0x01  /* Remote */
#define PERF_MEM_REMOTE_SHIFT 37

#define PERF_MEM_LVLNUM_L1 0x01 /* L1 */
#define PERF_MEM_LVLNUM_L2 0x02 /* L2 */
#define PERF_MEM_LVLNUM_L3 0x03 /* L3 */
#define PERF_MEM_LVLNUM_L4 0x04 /* L4 */
/* 5-0x7 available */
#define PERF_MEM_LVLNUM_UNC 0x08 /* Uncached */
#define PERF_MEM_LVLNUM_CXL 0x09 /* CXL */
#define PERF_MEM_LVLNUM_IO 0x0a
 /* I/O */
#define PERF_MEM_LVLNUM_ANY_CACHE 0x0b /* Any cache */
#define PERF_MEM_LVLNUM_LFB 0x0c /* LFB */
#define PERF_MEM_LVLNUM_RAM 0x0d /* RAM */
#define PERF_MEM_LVLNUM_PMEM 0x0e /* PMEM */
#define PERF_MEM_LVLNUM_NA 0x0f /* N/A */

#define PERF_MEM_LVLNUM_SHIFT 33

/* snoop mode */
#define PERF_MEM_SNOOP_NA 0x01 /* not available */
#define PERF_MEM_SNOOP_NONE 0x02 /* no snoop */
#define PERF_MEM_SNOOP_HIT 0x04 /* snoop hit */
#define PERF_MEM_SNOOP_MISS 0x08 /* snoop miss */
#define PERF_MEM_SNOOP_HITM 0x10 /* snoop hit modified */
```

```
#define PERF_MEM_SNOOP_SHIFT 19

#define PERF_MEM_SNOOPX_FWD 0x01 /* forward */
#define PERF_MEM_SNOOPX_PEER 0x02 /* xfer from peer */
#define PERF_MEM_SNOOPX_SHIFT  38

/* locked instruction */
#define PERF_MEM_LOCK_NA 0x01 /* not available */
#define PERF_MEM_LOCK_LOCKED 0x02 /* locked transaction */
#define PERF_MEM_LOCK_SHIFT 24

/* TLB access */
#define PERF_MEM_TLB_NA  0x01 /* not available */
#define PERF_MEM_TLB_HIT 0x02 /* hit
 level */
#define PERF_MEM_TLB_MISS 0x04 /* miss level */
#define PERF_MEM_TLB_L1  0x08 /* L1 */
#define PERF_MEM_TLB_L2  0x10 /* L2 */
#define PERF_MEM_TLB_WK  0x20 /* Hardware Walker*/
#define PERF_MEM_TLB_OS  0x40 /* OS fault handler */
#define PERF_MEM_TLB_SHIFT 26

/* Access blocked */
#define PERF_MEM_BLK_NA  0x01 /* not available */
#define PERF_MEM_BLK_DATA 0x02 /* data could not be forwarded */
#define PERF_MEM_BLK_ADDR 0x04 /* address conflict */
#define PERF_MEM_BLK_SHIFT 40

/* hop level */
#define PERF_MEM_HOPS_0  0x01 /* remote core, same node */
#define PERF_MEM_HOPS_1  0x02 /* remote node, same socket */
#define PERF_MEM_HOPS_2  0x03 /* remote socket, same board */
#define PERF_MEM_HOPS_3  0x04 /* remote board */
/* 5-7 available */
#define PERF_MEM_HOPS_SHIFT 43

#define PERF_MEM_S(a, s) \
 (((__u64)PERF_MEM_##a##_##s) << PERF_MEM_##a##_SHIFT)

/*
* single taken branch record layout:
*
*      from: source instruction (may not always be a branch insn)
*        to:
 branch target
*   mispred: branch target was mispredicted
* predicted: branch target was predicted
*
```

```
* support for mispred, predicted is optional. In case it
* is not supported mispred = predicted = 0.
*
*     in_tx: running in a hardware transaction
*     abort: aborting a hardware transaction
*    cycles: cycles from last branch (or 0 if not supported)
*      type: branch type
*      spec: branch speculation info (or 0 if not supported)
*/
struct perf_branch_entry {
 __u64 from;
 __u64 to;
 __u64 mispred:1,  /* target mispredicted */
  predicted:1,/* target predicted */
  in_tx:1,    /* in transaction */
  abort:1,    /* transaction abort */
  cycles:16,  /* cycle count to last branch */
  type:4,     /* branch type */
  spec:2,     /* branch speculation info */
  new_type:4, /* additional branch type */
  priv:3,     /* privilege level */
  reserved:31;
};

/* Size of used info bits in struct perf_branch_entry */
#define PERF_BRANCH_ENTRY_INFO_BITS_MAX  33

union perf_sample_weight
 {
 __u64  full;
#if defined(__LITTLE_ENDIAN_BITFIELD)
 struct {
  __u32 var1_dw;
  __u16 var2_w;
  __u16 var3_w;
 };
#elif defined(__BIG_ENDIAN_BITFIELD)
 struct {
  __u16 var3_w;
  __u16 var2_w;
  __u32 var1_dw;
 };
#else
#error "Unknown endianness"
#endif
};

#endif /* _UAPI_LINUX_PERF_EVENT_H */
```

```
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __SKB_H__
#define __SKB_H__

#include <linux/if_ether.h>
#include <linux/ip.h>
#include <linux/udp.h>
#include <linux/tcp.h>

#include "bpf.h"
#include "types.h"
#include "log.h"

/* skb_start_ptr is equivalent to (void*)((__u64)skb->data); the read is done
* in a way that is acceptable to the verifier and it is done as a volatile read
* ensuring that a fresh value is returned and the compiler cannot
* reorder/recalculate the value later.
*/
static CALI_BPF_INLINE void *skb_start_ptr(struct __sk_buff *skb) {
 void *ptr;
 asm volatile (\
  "%[ptr] = *(u32 *)(%[skb] + %[offset])" \
  : [ptr] "=r" (ptr) /*out*/ \
  : [skb] "r" (skb),
    [offset] "i" (offsetof(struct __sk_buff, data)) /*in*/ \
  : /*clobber*/ \
 );
 return ptr;
}

/* skb_end_ptr is equivalent to (void*)((__u64)skb->data_end); the read is done
* in a
 way that is acceptable to the verifier and it is done as a volatile read
* ensuring that a fresh value is returned and the compiler cannot
* reorder/recalculate the value later.
*/
static CALI_BPF_INLINE void *skb_end_ptr(struct __sk_buff *skb) {
 void *ptr;
 asm volatile (\
  "%[ptr] = *(u32 *)(%[skb] + %[offset])" \
  : [ptr] "=r" (ptr) /*out*/ \
  : [skb] "r" (skb),
    [offset] "i" (offsetof(struct __sk_buff, data_end)) /*in*/ \
  : /*clobber*/ \
  );
```

```
 return ptr;
}

/* skb_refresh_start_end refreshes the data_start and data_end pointers in the context.
* Fresh values are loaded using skb_start/end_ptr.
*/
static CALI_BPF_INLINE void skb_refresh_start_end(struct cali_tc_ctx *ctx) {
#if CALI_F_XDP
 ctx->data_start = (void *)(long)ctx->xdp->data;
 ctx->data_end = (void *)(long)ctx->xdp->data_end;
#else
 ctx->data_start = skb_start_ptr(ctx->skb);
 ctx->data_end = skb_end_ptr(ctx->skb);
#endif
}

/* skb_iphdr_offset returns the expected offset of the IP header for this type of program.
 * For example, in programs attached to L3 tunnel devices, the IP header is at location 0.
* Whereas, in L2 programs, it's past the ethernet header.
*/
static CALI_BPF_INLINE long skb_iphdr_offset(struct cali_tc_ctx *ctx)
{
 if (CALI_F_IPIP_ENCAPPED) {
  // Ingress on an IPIP tunnel: skb is [ether|outer IP|inner IP|payload]
  // TODO: we need to consider different types of IPIP tunnels like 4in6 or 6in4
  // XXX no support for ip options in ipip header
  return sizeof(struct ethhdr) + IP_SIZE;
 } else if (CALI_F_L3) {
  // Egress on an IPIP tunnel, or any other l3 devices (wireguard) both directions:
  // skb is [inner IP|payload]
  return 0;
 } else {
  // Normal L2 interface: skb is [ether|IP|payload]
  return sizeof(struct ethhdr);
 }
}

/* skb_refresh_validate_ptrs refreshes the packet pointers in the context and validates access
* to the IP header + nh_len (next header length) bytes.  If the skb is non-linear; attempts to
* pull in that many bytes if needed.  If the pull
 fails, the packet pointers can be left invalid.
*
* After a successful validation, returns 0 and the following pointers are valid:
* - ctx->data_start/end
* - ctx->eth (if this BPF program has access to the L2 header)
* - ctx->ip_header
* - ctx->nh/tcp_header/udp_header/icmp_header.
*/
```

```
static CALI_BPF_INLINE int skb_refresh_validate_ptrs(struct cali_tc_ctx *ctx, long nh_len)
{
 int min_size = skb_iphdr_offset(ctx) + IP_SIZE;
 skb_refresh_start_end(ctx);
 if (ctx->data_start + (min_size + nh_len) > ctx->data_end) {
  // This is an XDP program and there is not enough data for next header.
#if CALI_F_XDP
  CALI_DEBUG("Too short to have %d bytes for next header\n",
      min_size + nh_len);
  return -2;
#else
  // Try to pull in more data.  Ideally enough for TCP, or, failing that, the
  // minimum we've been asked for.
  if (nh_len > TCP_SIZE || bpf_skb_pull_data(ctx->skb, min_size + TCP_SIZE)) {
   CALI_DEBUG("Pulling %d bytes.\n", min_size + nh_len);
   if (bpf_skb_pull_data(ctx->skb,
 min_size + nh_len)) {
    CALI_DEBUG("Pull failed (min len)\n");
    return -1;
   }
  }
  CALI_DEBUG("Pulled data\n");
  skb_refresh_start_end(ctx);
  if (ctx->data_start + (min_size + nh_len) > ctx->data_end) {
   return -2;
  }
#endif
 }
 // Success, refresh the ip_header/nh fields in the context.
 ctx->ip_header =  ctx->data_start + skb_iphdr_offset(ctx);

 return 0;
}

#define skb_ptr_after(skb, ptr) ((void *)((ptr) + 1))
#define skb_seen(skb) (((skb)->mark & CALI_SKB_MARK_SEEN_MASK) == CALI_SKB_MARK_SEEN)

#define skb_from_host(skb) (CALI_F_TO_HEP && !skb_seen(skb))

static CALI_BPF_INLINE long skb_l4hdr_offset(struct cali_tc_ctx *ctx)
{
 return skb_iphdr_offset(ctx) + ctx->ipheader_len;
}

static CALI_BPF_INLINE __u32 skb_ingress_ifindex(struct __sk_buff *skb)
{
#ifdef UNITTEST
 /* ingress_ifindex is not set in PROG_RUN */
```

```
 return skb->ingress_ifindex ? : skb->ifindex;
#else
 return skb->ingress_ifindex;
#endif
}

static CALI_BPF_INLINE bool skb_is_gso(struct __sk_buff
 *skb) {
#ifdef BPF_CORE_SUPPORTED
 if (bpf_core_field_exists(skb->gso_size)) {
  return (skb->gso_size > 0);
 }
#endif
 return (skb->gso_segs > 1);
}

static CALI_BPF_INLINE void skb_set_mark(struct __sk_buff *skb, __u32 mark)
{
 asm volatile (\
  "*(u32 *)(%[skb] + %[offset]) = %[mark]" \
  : /*out*/ : [skb] "r" (skb), [mark] "r" (mark),
    [offset] "i" (offsetof(struct __sk_buff, mark)) /*in*/ \
  : /*clobber*/ \
 );
}

#define skb_mark_equals(skb, mask, val) (((skb)->mark & (mask)) == (val))

static CALI_BPF_INLINE void skb_log(struct cali_tc_ctx *ctx, bool accepted)
{
 if (ctx->state->flags & CALI_ST_LOG_PACKET) {
#ifdef BPF_CORE_SUPPORTED
  if (bpf_core_enum_value_exists(enum bpf_func_id, BPF_FUNC_trace_vprintk)) {
#if CALI_F_XDP
#define DIR_STR "X"
#elif ((CALI_COMPILE_FLAGS) & CALI_TC_INGRESS)
#define DIR_STR "I"
#else
#define DIR_STR "E"
#endif
  char *ok   = "ALLOWED";
  char *drop = "DENIED ";
   char fmt[] = "%s-" DIR_STR ": policy %s proto %d src " IP_FMT ":%d dest " IP_FMT
 ":%d";
   __u64 args[] = {
#if !CALI_F_XDP
    (__u64)(&ctx->globals->data.iface_name),
#else
```

```
    (__u64)(&ctx->xdp_globals->iface_name),
#endif
    accepted ? (__u64) ok : (__u64) drop,
    ctx->state->ip_proto,
    (__u64) &ctx->state->ip_src,
    ctx->state->sport,
    (__u64) &ctx->state->ip_dst,
    ctx->state->dport,
   };
   bpf_trace_vprintk(fmt, sizeof(fmt), args, sizeof(args));
   return;
  }
#endif
  if (accepted) {
   CALI_LOG("ALLOWED");
  } else {
   CALI_LOG("DENIED");
  }
 }
}

#endif /* __SKB_H__ */
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#ifndef __CALI_ICMP4_H__
#define __CALI_ICMP4_H__

#include <linux/if_ether.h>
#include <linux/ip.h>
#include <linux/icmp.h>

#include "bpf.h"
#include "log.h"
#include "skb.h"

static CALI_BPF_INLINE int icmp_v4_reply(struct cali_tc_ctx *ctx,
     __u8 type, __u8 code, __be32 un)
{
 int ret;

 /* ICMP is on the slow path so we may as well revalidate here to keep calling code
  * simple.  We only need to look at the IP header before we resize the packet. */
 if (skb_refresh_validate_ptrs(ctx, 0)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("ICMP v4 reply: too short\n");
  return -1;
```

```
}

struct iphdr ip_orig = *ip_hdr(ctx);

/* Trim the packet to the desired length. ICMP requires min 8 bytes of
 * payload but the SKB implementation gets upset if we try to trim
 * part-way through the UDP/TCP header.
 */
__u32 len
= skb_iphdr_offset(ctx) + 60 /* max IP len */;
switch (ip_hdr(ctx)->protocol) {
case IPPROTO_TCP:
 len += sizeof(struct tcphdr);
 break;
case IPPROTO_UDP:
 len += sizeof(struct udphdr);
 break;
default:
 len += 8;
 break;
}

CALI_DEBUG("Trimming to %d\n", len);
int err = bpf_skb_change_tail(ctx->skb, len,  0);
if (err) {
 CALI_DEBUG("ICMP v4 reply: early bpf_skb_change_tail (len=%d) failed (err=%d)\n", len, err);
 return -1;
}

/* make room for the new IP + ICMP header */
int new_hdrs_len = sizeof(struct iphdr) + sizeof(struct icmphdr);
CALI_DEBUG("Inserting %d\n", new_hdrs_len);
ret = bpf_skb_adjust_room(ctx->skb, new_hdrs_len, BPF_ADJ_ROOM_MAC, 0);
if (ret) {
 CALI_DEBUG("ICMP v4 reply: failed to make room\n");
 return -1;
}

len += new_hdrs_len;
CALI_DEBUG("Len after insert %d\n", len);

/* ICMP reply carries the IP header + at least 8 bytes of data. */
if (skb_refresh_validate_ptrs(ctx, len - IP_SIZE - (CALI_F_L3 ? 0 : ETH_SIZE))) {
 deny_reason(ctx,
CALI_REASON_SHORT);
 CALI_DEBUG("ICMP v4 reply: too short after making room\n");
 return -1;
}
```

```
 /* we do not touch ethhdr, we rely on linux to rewrite it after routing
  * XXX we might want to swap MACs and bounce it back from the same device
  */
 ip_hdr(ctx)->version = 4;
 ip_hdr(ctx)->ihl = 5;
 ip_hdr(ctx)->tos = 0;
 ip_hdr(ctx)->ttl = 64; /* good default */
 ip_hdr(ctx)->protocol = IPPROTO_ICMP;
 ip_hdr(ctx)->check = 0;
 ip_hdr(ctx)->tot_len = bpf_htons(len - (CALI_F_L3_DEV ? 0 : ETH_SIZE));

 ctx->ipheader_len = 20;

#ifdef CALI_PARANOID
 /* XXX verify that ip_orig.daddr is always the node's IP
  *
  * we only call this function because of NodePort encap
  */
 if (ip_orig.daddr != HOST_IP) {
  CALI_DEBUG("ICMP v4 reply: ip_orig.daddr != HOST_IP 0x%x\n", ip_orig.daddr);
 }
#endif

 /* use the host IP of the program that handles the packet */
 ip_hdr(ctx)->saddr = INTF_IP;
 ip_hdr(ctx)->daddr = ip_orig.saddr;

 struct icmphdr *icmp = ((void *)ip_hdr(ctx)) + IP_SIZE;

 icmp->type
 = type;
 icmp->code = code;
 *((__be32 *)&icmp->un) = un;
 icmp->checksum = 0;

 __wsum ip_csum = bpf_csum_diff(0, 0, ctx->ip_header, sizeof(struct iphdr), 0);
 __wsum icmp_csum = bpf_csum_diff(0, 0, (__u32 *)icmp,
  len - sizeof(struct iphdr) - skb_iphdr_offset(ctx), 0);
 CALI_DEBUG("ICMP: checksum 0x%x len %d\n", icmp_csum, len - sizeof(struct iphdr) - skb_iphdr_offset(ctx));

 ret = bpf_l3_csum_replace(ctx->skb,
   skb_iphdr_offset(ctx) + offsetof(struct iphdr, check), 0, ip_csum, 0);
 if (ret) {
  CALI_DEBUG("ICMP v4 reply: set ip csum failed\n");
  return -1;
 }
 ret = bpf_l4_csum_replace(ctx->skb, sizeof(struct ethhdr) + sizeof(struct iphdr) +
```

```
    offsetof(struct icmphdr, checksum), 0, icmp_csum, 0);
 if (ret) {
  CALI_DEBUG("ICMP v4 reply: set icmp csum failed\n");
  return -1;
 }

 CALI_DEBUG("ICMP v4 reply creation succeeded\n");

 return 0;
}

static CALI_BPF_INLINE bool icmp_type_is_err(__u8 type)
{
 switch (type) {
 case ICMP_DEST_UNREACH:
 case ICMP_SOURCE_QUENCH:
 case
 ICMP_REDIRECT:
 case ICMP_TIME_EXCEEDED:
 case ICMP_PARAMETERPROB:
  return true;
 }

 return false;
}

#endif /* __CALI_ICMP4_H__ */
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#ifndef __CALI_BPF_JUMP_H__
#define __CALI_BPF_JUMP_H__

CALI_MAP(cali_state, 4,
  BPF_MAP_TYPE_PERCPU_ARRAY,
  __u32, struct cali_tc_state,
  2, 0)

static CALI_BPF_INLINE struct cali_tc_state *state_get(void)
{
 __u32 key = 0;
 return cali_state_lookup_elem(&key);
}

/* N.B. we just grab large enough chunk of data in the state map. State is so
* large that the globals fit in the extra slot in the array. The get functions
* just typecast it to the desired type of globals.
```

```
*/

static CALI_BPF_INLINE struct cali_tc_globals *state_get_globals_tc(void)
{
 __u32 key = 1;
 return cali_state_lookup_elem(&key);
}

static CALI_BPF_INLINE struct cali_xdp_globals *state_get_globals_xdp(void)
{
 __u32 key = 1;
 return cali_state_lookup_elem(&key);
}

#define PROG_PATH(idx) ((CALI_LOG_LEVEL < CALI_LOG_LEVEL_DEBUG) ? idx : idx ## _DEBUG)

#if
 CALI_F_XDP

#define cali_jump_map map_symbol(xdp_cali_progs, 3)

CALI_MAP_V1(cali_jump_map, BPF_MAP_TYPE_PROG_ARRAY, __u32, __u32, 400, 0)

#define CALI_JUMP_TO(ctx, index) bpf_tail_call((ctx)->xdp, &cali_jump_map, (ctx)->xdp_globals-
>jumps[PROG_PATH(index)])

#else /* CALI_F_XDP */

#define cali_jump_map map_symbol(cali_progs, 3)

CALI_MAP_V1(cali_jump_map, BPF_MAP_TYPE_PROG_ARRAY, __u32, __u32, 400, 0)

#define __CALI_JUMP_TO(ctx, index) do { \
 CALI_DEBUG("jump to idx %d prog at %d\n", index, (ctx)->globals->data.jumps[PROG_PATH(index)]); \
 bpf_tail_call((ctx)->skb, &cali_jump_map, (ctx)->globals->data.jumps[PROG_PATH(index)]); \
} while (0)

#define CALI_JUMP_TO(ctx, index) __CALI_JUMP_TO(ctx, index)

#endif

/* Add new values to the end as these are program indices */
enum cali_jump_index {
 PROG_INDEX_MAIN,
 PROG_INDEX_POLICY,
 PROG_INDEX_ALLOWED,
 PROG_INDEX_ICMP,
 PROG_INDEX_DROP,
```

```
 PROG_INDEX_HOST_CT_CONFLICT,
 PROG_INDEX_ICMP_INNER_NAT,
 PROG_INDEX_NEW_FLOW,

 PROG_INDEX_MAIN_DEBUG,
 PROG_INDEX_POLICY_DEBUG,
 PROG_INDEX_ALLOWED_DEBUG,
 PROG_INDEX_ICMP_DEBUG,
 PROG_INDEX_DROP_DEBUG,
 PROG_INDEX_HOST_CT_CONFLICT_DEBUG,
 PROG_INDEX_ICMP_INNER_NAT_DEBUG,
 PROG_INDEX_NEW_FLOW_DEBUG,
};

#if
 CALI_F_XDP

#define cali_jump_prog_map map_symbol(xdp_cali_jump, 3)

CALI_MAP_V1(cali_jump_prog_map, BPF_MAP_TYPE_PROG_ARRAY, __u32, __u32, 2400, 0)

/* We on any path, we always jump to the PROG_INDEX_POLICY for policy, that one
* is shared!
*/
#define CALI_JUMP_TO_POLICY(ctx) \
 bpf_tail_call((ctx)->xdp, &cali_jump_prog_map, (ctx)->xdp_globals->jumps[PROG_INDEX_POLICY])
#else /* CALI_F_XDP */

#define cali_jump_prog_map map_symbol(cali_jump, 3)

CALI_MAP_V1(cali_jump_prog_map, BPF_MAP_TYPE_PROG_ARRAY, __u32, __u32, 240000, 0)

#define __CALI_JUMP_TO_POLICY(ctx, allow, deny, pol) do { \
 (ctx)->skb->cb[0] = (ctx)->globals->data.jumps[PROG_PATH(allow)];   \
 (ctx)->skb->cb[1] = (ctx)->globals->data.jumps[PROG_PATH(deny)];    \
 CALI_DEBUG("policy allow prog at %d\n",
 (ctx)->globals->data.jumps[PROG_PATH(allow)]); \
 CALI_DEBUG("policy deny prog at %d\n", (ctx)->globals->data.jumps[PROG_PATH(deny)]); \
 CALI_DEBUG("jump to policy prog at %d\n", (ctx)->globals->data.jumps[pol]);  \
 bpf_tail_call((ctx)->skb, &cali_jump_prog_map, (ctx)->globals->data.jumps[pol]); \
} while (0)

#define CALI_JUMP_TO_POLICY(ctx) \
 __CALI_JUMP_TO_POLICY(ctx, PROG_INDEX_ALLOWED, PROG_INDEX_DROP,
PROG_INDEX_POLICY)
#endif

#endif /* __CALI_BPF_JUMP_H__ */
```

```
// Project Calico BPF dataplane programs.
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#ifndef __CONNECT_H__
#define __CONNECT_H__

#include <linux/bpf.h>

#include "bpf.h"
#include "nat_lookup.h"

static CALI_BPF_INLINE int do_nat_common(struct bpf_sock_addr *ctx, __u8 proto, ipv46_addr_t *dst, bool
connect)
{
 int err = 0;
 /* We do not know what the source address is yet, we only know that it
  * is the localhost, so we might just use 0.0.0.0. That would not
  * conflict with traffic from elsewhere.
  *
  * XXX it means that all workloads that use the cgroup hook have the
  * XXX same affinity, which (a) is sub-optimal and (b) leaks info between
  * XXX workloads.
  */
 nat_lookup_result res = NAT_LOOKUP_ALLOW;
 __u16 dport_he = (__u16)(bpf_ntohl(ctx->user_port)>>16);
 struct calico_nat_dest *nat_dest;
 ipv46_addr_t voidip = VOID_IP;
 nat_dest = calico_nat_lookup(&voidip, dst, proto, dport_he, false, &res,
   proto
 == IPPROTO_UDP && !connect ? CTLB_UDP_NOT_SEEN_TIMEO : 0, /* enforce affinity UDP */
   proto == IPPROTO_UDP && !connect /* update affinity timer */);
 if (!nat_dest) {
  CALI_INFO("NAT miss.\n");
  if (res == NAT_NO_BACKEND) {
   err = -1;
  }
  goto out;
 }

 __be32 dport_be = host_to_ctx_port(nat_dest->port);

 __u64 cookie = bpf_get_socket_cookie(ctx);
 CALI_DEBUG("Store: ip=%x port=%d cookie=%x\n",
   debug_ip(nat_dest->addr), bpf_ntohs((__u16)dport_be), cookie);

 /* For all protocols, record recent NAT operations in an LRU map; other BPF programs use this
  * cache to reverse our DNAT so they can do pre-DNAT policy. */
```

```
 struct ct_nats_key natk = {
  .cookie = cookie,
  .ip = nat_dest->addr,
  .port = dport_be,
  .proto = proto,
 };
 struct sendrec_val val = {
  .ip = *dst,
  .port = ctx->user_port,
 };
 int rc = cali_ct_nats_update_elem(&natk, &val, 0);
 if (rc) {
  /* if this happens things are really bad! report */
  CALI_INFO("Failed to update ct_nats map rc=%d\n", rc);
 }

 if
 (proto != IPPROTO_TCP) {
  /* For UDP, store a long-lived reverse mapping, which we use to reverse the DNAT for programs that
   * check the source on the return packets. */
  __u64 cookie = bpf_get_socket_cookie(ctx);
  CALI_DEBUG("Store: ip=%x port=%d cookie=%x\n",
    debug_ip(nat_dest->addr), bpf_ntohs((__u16)dport_be), cookie);
  struct sendrec_key key = {
   .ip = nat_dest->addr,
   .port = dport_be,
   .cookie = cookie,
  };

  if (cali_srmsg_update_elem(&key, &val, 0)) {
   /* if this happens things are really bad! report */
   CALI_INFO("Failed to update map\n");
   goto out;
  }
 }

 *dst = nat_dest->addr;
 ctx->user_port = dport_be;

out:
 return err;
}

static CALI_BPF_INLINE int connect(struct bpf_sock_addr *ctx, ipv46_addr_t *dst)
{
 int ret = 1; /* OK value */

 /* do not process anything non-TCP or non-UDP, but do not block it, will be
```

```
 * dealt with somewhere else.
 */
if (ctx->type != SOCK_STREAM && ctx->type != SOCK_DGRAM) {
 CALI_INFO("unexpected sock type
%d\n", ctx->type);
 goto out;
}

__u8 ip_proto;
switch (ctx->type) {
case SOCK_STREAM:
 CALI_DEBUG("SOCK_STREAM -> assuming TCP\n");
 ip_proto = IPPROTO_TCP;
 break;
case SOCK_DGRAM:
 if (CTLB_EXCLUDE_UDP) {
  goto out;
 }
 CALI_DEBUG("SOCK_DGRAM -> assuming UDP\n");
 ip_proto = IPPROTO_UDP;
 break;
default:
 CALI_DEBUG("Unknown socket type: %d\n", (int)ctx->type);
 goto out;
}

if (do_nat_common(ctx, ip_proto, dst, true) != 0) {
 ret = 0; /* ret != 1 generates an error in pre-connect */
 goto out;
}

out:
 return ret;
}

#endif /* __CONNECT_H__ */
/* SPDX-License-Identifier: ((GPL-2.0 WITH Linux-syscall-note) OR BSD-3-Clause) */
/* Do not edit directly, auto-generated from: */
/* Documentation/netlink/specs/netdev.yaml */
/* YNL-GEN uapi header */

#ifndef _UAPI_LINUX_NETDEV_H
#define _UAPI_LINUX_NETDEV_H

#define NETDEV_FAMILY_NAME "netdev"
#define NETDEV_FAMILY_VERSION 1

/**
```

```
* enum netdev_xdp_act
* @NETDEV_XDP_ACT_BASIC: XDP features set supported by all drivers
*   (XDP_ABORTED, XDP_DROP, XDP_PASS, XDP_TX)
* @NETDEV_XDP_ACT_REDIRECT: The netdev supports XDP_REDIRECT
* @NETDEV_XDP_ACT_NDO_XMIT: This feature informs if netdev implements
*   ndo_xdp_xmit callback.
* @NETDEV_XDP_ACT_XSK_ZEROCOPY: This feature informs if netdev supports AF_XDP
*   in zero copy mode.
* @NETDEV_XDP_ACT_HW_OFFLOAD: This feature informs if netdev supports XDP hw
*   offloading.
* @NETDEV_XDP_ACT_RX_SG: This feature informs if netdev implements non-linear
*   XDP buffer support in the driver napi callback.
* @NETDEV_XDP_ACT_NDO_XMIT_SG: This
 feature informs if netdev implements
*   non-linear XDP buffer support in ndo_xdp_xmit callback.
*/
enum netdev_xdp_act {
 NETDEV_XDP_ACT_BASIC = 1,
 NETDEV_XDP_ACT_REDIRECT = 2,
 NETDEV_XDP_ACT_NDO_XMIT = 4,
 NETDEV_XDP_ACT_XSK_ZEROCOPY = 8,
 NETDEV_XDP_ACT_HW_OFFLOAD = 16,
 NETDEV_XDP_ACT_RX_SG = 32,
 NETDEV_XDP_ACT_NDO_XMIT_SG = 64,

 /* private: */
 NETDEV_XDP_ACT_MASK = 127,
};

/**
* enum netdev_xdp_rx_metadata
* @NETDEV_XDP_RX_METADATA_TIMESTAMP: Device is capable of exposing receive HW
*   timestamp via bpf_xdp_metadata_rx_timestamp().
* @NETDEV_XDP_RX_METADATA_HASH: Device is capable of exposing receive packet
*   hash via bpf_xdp_metadata_rx_hash().
* @NETDEV_XDP_RX_METADATA_VLAN_TAG: Device is capable of exposing receive
*   packet VLAN tag via bpf_xdp_metadata_rx_vlan_tag().
*/
enum netdev_xdp_rx_metadata {
 NETDEV_XDP_RX_METADATA_TIMESTAMP = 1,
 NETDEV_XDP_RX_METADATA_HASH = 2,
 NETDEV_XDP_RX_METADATA_VLAN_TAG = 4,
};

/**
* enum netdev_xsk_flags
* @NETDEV_XSK_FLAGS_TX_TIMESTAMP:
```

```
 HW timestamping egress packets is supported
*   by the driver.
* @NETDEV_XSK_FLAGS_TX_CHECKSUM: L3 checksum HW offload is supported by the
*   driver.
*/
enum netdev_xsk_flags {
 NETDEV_XSK_FLAGS_TX_TIMESTAMP = 1,
 NETDEV_XSK_FLAGS_TX_CHECKSUM = 2,
};

enum netdev_queue_type {
 NETDEV_QUEUE_TYPE_RX,
 NETDEV_QUEUE_TYPE_TX,
};

enum netdev_qstats_scope {
 NETDEV_QSTATS_SCOPE_QUEUE = 1,
};

enum {
 NETDEV_A_DEV_IFINDEX = 1,
 NETDEV_A_DEV_PAD,
 NETDEV_A_DEV_XDP_FEATURES,
 NETDEV_A_DEV_XDP_ZC_MAX_SEGS,
 NETDEV_A_DEV_XDP_RX_METADATA_FEATURES,
 NETDEV_A_DEV_XSK_FEATURES,

 __NETDEV_A_DEV_MAX,
 NETDEV_A_DEV_MAX = (__NETDEV_A_DEV_MAX - 1)
};

enum {
 NETDEV_A_PAGE_POOL_ID = 1,
 NETDEV_A_PAGE_POOL_IFINDEX,
 NETDEV_A_PAGE_POOL_NAPI_ID,
 NETDEV_A_PAGE_POOL_INFLIGHT,
 NETDEV_A_PAGE_POOL_INFLIGHT_MEM,
 NETDEV_A_PAGE_POOL_DETACH_TIME,

 __NETDEV_A_PAGE_POOL_MAX,
 NETDEV_A_PAGE_POOL_MAX = (__NETDEV_A_PAGE_POOL_MAX - 1)
};

enum {
 NETDEV_A_PAGE_POOL_STATS_INFO = 1,
 NETDEV_A_PAGE_POOL_STATS_ALLOC_FAST
 = 8,
 NETDEV_A_PAGE_POOL_STATS_ALLOC_SLOW,
```

```
 NETDEV_A_PAGE_POOL_STATS_ALLOC_SLOW_HIGH_ORDER,
 NETDEV_A_PAGE_POOL_STATS_ALLOC_EMPTY,
 NETDEV_A_PAGE_POOL_STATS_ALLOC_REFILL,
 NETDEV_A_PAGE_POOL_STATS_ALLOC_WAIVE,
 NETDEV_A_PAGE_POOL_STATS_RECYCLE_CACHED,
 NETDEV_A_PAGE_POOL_STATS_RECYCLE_CACHE_FULL,
 NETDEV_A_PAGE_POOL_STATS_RECYCLE_RING,
 NETDEV_A_PAGE_POOL_STATS_RECYCLE_RING_FULL,
 NETDEV_A_PAGE_POOL_STATS_RECYCLE_RELEASED_REFCNT,

 __NETDEV_A_PAGE_POOL_STATS_MAX,
 NETDEV_A_PAGE_POOL_STATS_MAX = (__NETDEV_A_PAGE_POOL_STATS_MAX - 1)
};

enum {
 NETDEV_A_NAPI_IFINDEX = 1,
 NETDEV_A_NAPI_ID,
 NETDEV_A_NAPI_IRQ,
 NETDEV_A_NAPI_PID,

 __NETDEV_A_NAPI_MAX,
 NETDEV_A_NAPI_MAX = (__NETDEV_A_NAPI_MAX - 1)
};

enum {
 NETDEV_A_QUEUE_ID = 1,
 NETDEV_A_QUEUE_IFINDEX,
 NETDEV_A_QUEUE_TYPE,
 NETDEV_A_QUEUE_NAPI_ID,

 __NETDEV_A_QUEUE_MAX,
 NETDEV_A_QUEUE_MAX = (__NETDEV_A_QUEUE_MAX - 1)
};

enum {
 NETDEV_A_QSTATS_IFINDEX = 1,
 NETDEV_A_QSTATS_QUEUE_TYPE,
 NETDEV_A_QSTATS_QUEUE_ID,
 NETDEV_A_QSTATS_SCOPE,
 NETDEV_A_QSTATS_RX_PACKETS
 = 8,
 NETDEV_A_QSTATS_RX_BYTES,
 NETDEV_A_QSTATS_TX_PACKETS,
 NETDEV_A_QSTATS_TX_BYTES,
 NETDEV_A_QSTATS_RX_ALLOC_FAIL,

 __NETDEV_A_QSTATS_MAX,
 NETDEV_A_QSTATS_MAX = (__NETDEV_A_QSTATS_MAX - 1)
```

```
};

enum {
 NETDEV_CMD_DEV_GET = 1,
 NETDEV_CMD_DEV_ADD_NTF,
 NETDEV_CMD_DEV_DEL_NTF,
 NETDEV_CMD_DEV_CHANGE_NTF,
 NETDEV_CMD_PAGE_POOL_GET,
 NETDEV_CMD_PAGE_POOL_ADD_NTF,
 NETDEV_CMD_PAGE_POOL_DEL_NTF,
 NETDEV_CMD_PAGE_POOL_CHANGE_NTF,
 NETDEV_CMD_PAGE_POOL_STATS_GET,
 NETDEV_CMD_QUEUE_GET,
 NETDEV_CMD_NAPI_GET,
 NETDEV_CMD_QSTATS_GET,

 __NETDEV_CMD_MAX,
 NETDEV_CMD_MAX = (__NETDEV_CMD_MAX - 1)
};

#define NETDEV_MCGRP_MGMT "mgmt"
#define NETDEV_MCGRP_PAGE_POOL "page-pool"

#endif /* _UAPI_LINUX_NETDEV_H */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

#ifndef __LINUX_ERR_H
#define __LINUX_ERR_H

#include <linux/types.h>
#include <asm/errno.h>

#define MAX_ERRNO       4095

#define IS_ERR_VALUE(x) ((x) >= (unsigned long)-MAX_ERRNO)

static inline void * ERR_PTR(long error_)
{
 return (void *) error_;
}

static inline long PTR_ERR(const void *ptr)
{
 return (long) ptr;
}

static inline bool IS_ERR(const void *ptr)
{
```

```
 return IS_ERR_VALUE((unsigned long)ptr);
}

static inline bool IS_ERR_OR_NULL(const void *ptr)
{
 return (!ptr) || IS_ERR_VALUE((unsigned long)ptr);
}

static inline long PTR_ERR_OR_ZERO(const void *ptr)
{
 return IS_ERR(ptr) ? PTR_ERR(ptr) : 0;
}

#endif
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
#ifndef _UAPI_LINUX_FCNTL_H
#define _UAPI_LINUX_FCNTL_H

#include <asm/fcntl.h>
#include <linux/openat2.h>

#define F_SETLEASE (F_LINUX_SPECIFIC_BASE + 0)
#define F_GETLEASE (F_LINUX_SPECIFIC_BASE + 1)

/*
* Cancel a blocking posix lock; internal use only until we expose an
* asynchronous lock api to userspace:
*/
#define F_CANCELLK (F_LINUX_SPECIFIC_BASE + 5)

/* Create a file descriptor with FD_CLOEXEC set. */
#define F_DUPFD_CLOEXEC (F_LINUX_SPECIFIC_BASE + 6)

/*
* Request nofications on a directory.
* See below for events that may be notified.
*/
#define F_NOTIFY (F_LINUX_SPECIFIC_BASE+2)

/*
* Set and get of pipe page size array
*/
#define F_SETPIPE_SZ (F_LINUX_SPECIFIC_BASE + 7)
#define F_GETPIPE_SZ (F_LINUX_SPECIFIC_BASE + 8)

/*
* Set/Get seals
*/
```

```
#define F_ADD_SEALS (F_LINUX_SPECIFIC_BASE + 9)
#define F_GET_SEALS (F_LINUX_SPECIFIC_BASE + 10)

/*
* Types of seals
*/
#define F_SEAL_SEAL 0x0001 /* prevent
 further seals from being set */
#define F_SEAL_SHRINK 0x0002 /* prevent file from shrinking */
#define F_SEAL_GROW 0x0004 /* prevent file from growing */
#define F_SEAL_WRITE 0x0008 /* prevent writes */
#define F_SEAL_FUTURE_WRITE 0x0010  /* prevent future writes while mapped */
#define F_SEAL_EXEC 0x0020  /* prevent chmod modifying exec bits */
/* (1U << 31) is reserved for signed error codes */

/*
* Set/Get write life time hints. {GET,SET}_RW_HINT operate on the
* underlying inode, while {GET,SET}_FILE_RW_HINT operate only on
* the specific file.
*/
#define F_GET_RW_HINT  (F_LINUX_SPECIFIC_BASE + 11)
#define F_SET_RW_HINT  (F_LINUX_SPECIFIC_BASE + 12)
#define F_GET_FILE_RW_HINT (F_LINUX_SPECIFIC_BASE + 13)
#define F_SET_FILE_RW_HINT (F_LINUX_SPECIFIC_BASE + 14)

/*
* Valid hint values for F_{GET,SET}_RW_HINT. 0 is "not set", or can be
* used to clear any hints previously set.
*/
#define RWH_WRITE_LIFE_NOT_SET 0
#define RWH_WRITE_LIFE_NONE 1
#define RWH_WRITE_LIFE_SHORT 2
#define
 RWH_WRITE_LIFE_MEDIUM 3
#define RWH_WRITE_LIFE_LONG 4
#define RWH_WRITE_LIFE_EXTREME 5

/*
* The originally introduced spelling is remained from the first
* versions of the patch set that introduced the feature, see commit
* v4.13-rc1~212^2~51.
*/
#define RWF_WRITE_LIFE_NOT_SET RWH_WRITE_LIFE_NOT_SET

/*
* Types of directory notifications that may be requested.
*/
#define DN_ACCESS 0x00000001 /* File accessed */
```

```
#define DN_MODIFY 0x00000002 /* File modified */
#define DN_CREATE 0x00000004 /* File created */
#define DN_DELETE 0x00000008 /* File removed */
#define DN_RENAME 0x00000010 /* File renamed */
#define DN_ATTRIB 0x00000020 /* File changed attibutes */
#define DN_MULTISHOT 0x80000000 /* Don't remove notifier */

/*
* The constants AT_REMOVEDIR and AT_EACCESS have the same value.  AT_EACCESS is
* meaningful only to faccessat, while AT_REMOVEDIR is meaningful only to
* unlinkat.  The two functions do completely different things and therefore,
* the flags can be allowed
 to overlap.  For example, passing AT_REMOVEDIR to
* faccessat would be undefined behavior and thus treating it equivalent to
* AT_EACCESS is valid undefined behavior.
*/
#define AT_FDCWD  -100    /* Special value used to indicate
                             openat should use the current
                             working directory. */
#define AT_SYMLINK_NOFOLLOW 0x100   /* Do not follow symbolic links.  */
#define AT_EACCESS  0x200 /* Test access permitted for
                             effective IDs, not real IDs.  */
#define AT_REMOVEDIR  0x200   /* Remove directory instead of
                             unlinking file.  */
#define AT_SYMLINK_FOLLOW 0x400   /* Follow symbolic links.  */
#define AT_NO_AUTOMOUNT  0x800 /* Suppress terminal automount traversal */
#define AT_EMPTY_PATH  0x1000 /* Allow empty relative pathname */

#define AT_STATX_SYNC_TYPE 0x6000 /* Type of synchronisation required from statx() */
#define
 AT_STATX_SYNC_AS_STAT 0x0000 /* - Do whatever stat() does */
#define AT_STATX_FORCE_SYNC 0x2000 /* - Force the attributes to be sync'd with the server */
#define AT_STATX_DONT_SYNC 0x4000 /* - Don't sync attributes with the server */

#define AT_RECURSIVE  0x8000 /* Apply to the entire subtree */

/* Flags for name_to_handle_at(2). We reuse AT_ flag space to save bits... */
#define AT_HANDLE_FID  AT_REMOVEDIR /* file handle is needed to
    compare object identity and may not
    be usable to open_by_handle_at(2) */
#if defined(__KERNEL__)
#define AT_GETATTR_NOSEC 0x80000000
#endif

#endif /* _UAPI_LINUX_FCNTL_H */
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
#ifndef __LINUX_PKT_SCHED_H
#define __LINUX_PKT_SCHED_H
```

```
#include <linux/types.h>

/* Logical priority bands not depending on specific packet scheduler.
   Every scheduler will map them to real traffic classes, if it has
   no more precise mechanism to classify packets.

   These numbers have no special meaning, though their coincidence
   with obsolete IPv6 values is not occasional :-). New IPv6 drafts
   preferred full anarchy inspired by diffserv group.

   Note: TC_PRIO_BESTEFFORT does not mean that it is the most unhappy
   class, actually, as rule it will be handled with more care than
   filler or even bulk.
*/

#define TC_PRIO_BESTEFFORT  0
#define TC_PRIO_FILLER   1
#define TC_PRIO_BULK   2
#define TC_PRIO_INTERACTIVE_BULK 4
#define TC_PRIO_INTERACTIVE  6
#define TC_PRIO_CONTROL   7

#define TC_PRIO_MAX   15

/* Generic queue statistics, available for all the elements.
   Particular schedulers may have also their private
  records.
*/

struct tc_stats {
  __u64 bytes;   /* Number of enqueued bytes */
  __u32 packets;  /* Number of enqueued packets */
  __u32 drops;   /* Packets dropped because of lack of resources */
  __u32 overlimits;  /* Number of throttle events when this
      * flow goes out of allocated bandwidth */
  __u32 bps;   /* Current flow byte rate */
  __u32 pps;   /* Current flow packet rate */
  __u32 qlen;
  __u32 backlog;
};

struct tc_estimator {
  signed char interval;
  unsigned char ewma_log;
};

/* "Handles"
```

```
 ---------

  All the traffic control objects have 32bit identifiers, or "handles".

  They can be considered as opaque numbers from user API viewpoint,
  but actually they always consist of two fields: major and
  minor numbers, which are interpreted by kernel specially,
  that may be used by applications, though not recommended.

  F.e. qdisc handles always have minor number equal to zero,
  classes (or flows) have major equal to parent qdisc major, and
  minor
 uniquely identifying class inside qdisc.

  Macros to manipulate handles:
*/

#define TC_H_MAJ_MASK (0xFFFF0000U)
#define TC_H_MIN_MASK (0x0000FFFFU)
#define TC_H_MAJ(h) ((h)&TC_H_MAJ_MASK)
#define TC_H_MIN(h) ((h)&TC_H_MIN_MASK)
#define TC_H_MAKE(maj,min) (((maj)&TC_H_MAJ_MASK)|((min)&TC_H_MIN_MASK))

#define TC_H_UNSPEC (0U)
#define TC_H_ROOT (0xFFFFFFFFU)
#define TC_H_INGRESS    (0xFFFFFFF1U)
#define TC_H_CLSACT TC_H_INGRESS

#define TC_H_MIN_PRIORITY 0xFFE0U
#define TC_H_MIN_INGRESS 0xFFF2U
#define TC_H_MIN_EGRESS  0xFFF3U

/* Need to corrospond to iproute2 tc/tc_core.h "enum link_layer" */
enum tc_link_layer {
 TC_LINKLAYER_UNAWARE, /* Indicate unaware old iproute2 util */
 TC_LINKLAYER_ETHERNET,
 TC_LINKLAYER_ATM,
};
#define TC_LINKLAYER_MASK 0x0F /* limit use to lower 4 bits */

struct tc_ratespec {
 unsigned char cell_log;
 __u8  linklayer; /* lower 4 bits */
 unsigned short overhead;
 short  cell_align;
 unsigned short mpu;
 __u32  rate;
};
```

```
#define TC_RTAB_SIZE 1024

struct
 tc_sizespec {
 unsigned char cell_log;
 unsigned char size_log;
 short  cell_align;
 int  overhead;
 unsigned int linklayer;
 unsigned int mpu;
 unsigned int mtu;
 unsigned int tsize;
};

enum {
 TCA_STAB_UNSPEC,
 TCA_STAB_BASE,
 TCA_STAB_DATA,
 __TCA_STAB_MAX
};

#define TCA_STAB_MAX (__TCA_STAB_MAX - 1)

/* FIFO section */

struct tc_fifo_qopt {
 __u32 limit; /* Queue length: bytes for bfifo, packets for pfifo */
};

/* SKBPRIO section */

/*
* Priorities go from zero to (SKBPRIO_MAX_PRIORITY - 1).
* SKBPRIO_MAX_PRIORITY should be at least 64 in order for skbprio to be able
* to map one to one the DS field of IPV4 and IPV6 headers.
* Memory allocation grows linearly with SKBPRIO_MAX_PRIORITY.
*/

#define SKBPRIO_MAX_PRIORITY 64

struct tc_skbprio_qopt {
 __u32 limit;  /* Queue length in packets. */
};

/* PRIO section */

#define TCQ_PRIO_BANDS 16
```

```
#define TCQ_MIN_PRIO_BANDS 2

struct tc_prio_qopt {
 int bands;   /* Number of bands */
 __u8 priomap[TC_PRIO_MAX+1]; /* Map: logical
 priority -> PRIO band */
};

/* MULTIQ section */

struct tc_multiq_qopt {
 __u16 bands;   /* Number of bands */
 __u16 max_bands;  /* Maximum number of queues */
};

/* PLUG section */

#define TCQ_PLUG_BUFFER                0
#define TCQ_PLUG_RELEASE_ONE           1
#define TCQ_PLUG_RELEASE_INDEFINITE    2
#define TCQ_PLUG_LIMIT                 3

struct tc_plug_qopt {
 /* TCQ_PLUG_BUFFER: Inset a plug into the queue and
  *  buffer any incoming packets
  * TCQ_PLUG_RELEASE_ONE: Dequeue packets from queue head
  *   to beginning of the next plug.
  * TCQ_PLUG_RELEASE_INDEFINITE: Dequeue all packets from queue.
  *   Stop buffering packets until the next TCQ_PLUG_BUFFER
  *   command is received (just act as a pass-thru queue).
  * TCQ_PLUG_LIMIT: Increase/decrease queue size
  */
 int            action;
 __u32          limit;
};

/* TBF section */

struct tc_tbf_qopt {
 struct tc_ratespec rate;
 struct tc_ratespec peakrate;
 __u32  limit;
 __u32  buffer;
 __u32  mtu;
};

enum
```

```
 {
 TCA_TBF_UNSPEC,
 TCA_TBF_PARMS,
 TCA_TBF_RTAB,
 TCA_TBF_PTAB,
 TCA_TBF_RATE64,
 TCA_TBF_PRATE64,
 TCA_TBF_BURST,
 TCA_TBF_PBURST,
 TCA_TBF_PAD,
 __TCA_TBF_MAX,
};

#define TCA_TBF_MAX (__TCA_TBF_MAX - 1)


/* TEQL section */

/* TEQL does not require any parameters */

/* SFQ section */

struct tc_sfq_qopt {
 unsigned quantum; /* Bytes per round allocated to flow */
 int  perturb_period; /* Period of hash perturbation */
 __u32  limit;  /* Maximal packets in queue */
 unsigned divisor; /* Hash divisor  */
 unsigned flows;  /* Maximal number of flows  */
};

struct tc_sfqred_stats {
 __u32          prob_drop;      /* Early drops, below max threshold */
 __u32          forced_drop; /* Early drops, after max threshold */
 __u32          prob_mark;      /* Marked packets, below max threshold */
 __u32          forced_mark;    /* Marked packets, after max threshold */
 __u32          prob_mark_head; /* Marked packets, below max threshold */
 __u32          forced_mark_head;/* Marked
 packets, after max threshold */
};

struct tc_sfq_qopt_v1 {
 struct tc_sfq_qopt v0;
 unsigned int depth;  /* max number of packets per flow */
 unsigned int headdrop;
/* SFQRED parameters */
 __u32  limit;  /* HARD maximal flow queue length (bytes) */
 __u32  qth_min; /* Min average length threshold (bytes) */
 __u32  qth_max; /* Max average length threshold (bytes) */
```

```
 unsigned char   Wlog;  /* log(W)  */
 unsigned char   Plog;  /* log(P_max/(qth_max-qth_min)) */
 unsigned char   Scell_log; /* cell size for idle damping */
 unsigned char flags;
 __u32  max_P;  /* probability, high resolution */
/* SFQRED stats */
 struct tc_sfqred_stats stats;
};


struct tc_sfq_xstats {
 __s32  allot;
};

/* RED section */

enum {
 TCA_RED_UNSPEC,
 TCA_RED_PARMS,
 TCA_RED_STAB,
 TCA_RED_MAX_P,
 __TCA_RED_MAX,
};

#define TCA_RED_MAX (__TCA_RED_MAX - 1)

struct tc_red_qopt {
 __u32  limit;  /* HARD maximal queue length (bytes) */
 __u32  qth_min; /* Min average length threshold (bytes) */
 __u32  qth_max; /*
 Max average length threshold (bytes) */
 unsigned char   Wlog;  /* log(W)  */
 unsigned char   Plog;  /* log(P_max/(qth_max-qth_min)) */
 unsigned char   Scell_log; /* cell size for idle damping */
 unsigned char flags;
#define TC_RED_ECN  1
#define TC_RED_HARDDROP  2
#define TC_RED_ADAPTATIVE 4
};

struct tc_red_xstats {
 __u32          early;          /* Early drops */
 __u32          pdrop;          /* Drops due to queue limits */
 __u32          other;          /* Drops due to drop() calls */
 __u32          marked;         /* Marked packets */
};

/* GRED section */
```

```
#define MAX_DPs 16

enum {
    TCA_GRED_UNSPEC,
    TCA_GRED_PARMS,
    TCA_GRED_STAB,
    TCA_GRED_DPS,
    TCA_GRED_MAX_P,
    TCA_GRED_LIMIT,
    TCA_GRED_VQ_LIST, /* nested TCA_GRED_VQ_ENTRY */
    __TCA_GRED_MAX,
};

#define TCA_GRED_MAX (__TCA_GRED_MAX - 1)

enum {
 TCA_GRED_VQ_ENTRY_UNSPEC,
 TCA_GRED_VQ_ENTRY, /* nested TCA_GRED_VQ_* */
 __TCA_GRED_VQ_ENTRY_MAX,
};
#define
 TCA_GRED_VQ_ENTRY_MAX (__TCA_GRED_VQ_ENTRY_MAX - 1)

enum {
 TCA_GRED_VQ_UNSPEC,
 TCA_GRED_VQ_PAD,
 TCA_GRED_VQ_DP,   /* u32 */
 TCA_GRED_VQ_STAT_BYTES,  /* u64 */
 TCA_GRED_VQ_STAT_PACKETS, /* u32 */
 TCA_GRED_VQ_STAT_BACKLOG, /* u32 */
 TCA_GRED_VQ_STAT_PROB_DROP, /* u32 */
 TCA_GRED_VQ_STAT_PROB_MARK, /* u32 */
 TCA_GRED_VQ_STAT_FORCED_DROP, /* u32 */
 TCA_GRED_VQ_STAT_FORCED_MARK, /* u32 */
 TCA_GRED_VQ_STAT_PDROP,  /* u32 */
 TCA_GRED_VQ_STAT_OTHER,  /* u32 */
 TCA_GRED_VQ_FLAGS,  /* u32 */
 __TCA_GRED_VQ_MAX
};

#define TCA_GRED_VQ_MAX (__TCA_GRED_VQ_MAX - 1)

struct tc_gred_qopt {
 __u32  limit;       /* HARD maximal queue length (bytes)    */
 __u32  qth_min;      /* Min average length threshold (bytes) */
 __u32  qth_max;      /* Max average length threshold (bytes) */
 __u32  DP;          /* up to 2^32 DPs */
```

```
 __u32  backlog;
 __u32  qave;
 __u32  forced;
 __u32  early;
 __u32  other;
 __u32  pdrop;
 __u8  Wlog;         /* log(W)              */
 __u8  Plog;         /* log(P_max/(qth_max-qth_min))
 */
 __u8  Scell_log;    /* cell size for idle damping */
 __u8  prio;         /* prio of this VQ */
 __u32  packets;
 __u32  bytesin;
};

/* gred setup */
struct tc_gred_sopt {
 __u32  DPs;
 __u32  def_DP;
 __u8  grio;
 __u8  flags;
 __u16  pad1;
};

/* CHOKe section */

enum {
 TCA_CHOKE_UNSPEC,
 TCA_CHOKE_PARMS,
 TCA_CHOKE_STAB,
 TCA_CHOKE_MAX_P,
 __TCA_CHOKE_MAX,
};

#define TCA_CHOKE_MAX (__TCA_CHOKE_MAX - 1)

struct tc_choke_qopt {
 __u32  limit;  /* Hard queue length (packets) */
 __u32  qth_min; /* Min average threshold (packets) */
 __u32  qth_max; /* Max average threshold (packets) */
 unsigned char   Wlog;  /* log(W)  */
 unsigned char   Plog;  /* log(P_max/(qth_max-qth_min)) */
 unsigned char   Scell_log; /* cell size for idle damping */
 unsigned char flags;  /* see RED flags */
};

struct tc_choke_xstats {
 __u32  early;          /* Early drops */
```

```
 __u32  pdrop;          /* Drops due to queue limits */
 __u32  other;          /* Drops due to drop()
 calls */
 __u32  marked;         /* Marked packets */
 __u32  matched; /* Drops due to flow match */
};

/* HTB section */
#define TC_HTB_NUMPRIO  8
#define TC_HTB_MAXDEPTH  8
#define TC_HTB_PROTOVER  3 /* the same as HTB and TC's major */

struct tc_htb_opt {
 struct tc_ratespec  rate;
 struct tc_ratespec  ceil;
 __u32 buffer;
 __u32 cbuffer;
 __u32 quantum;
 __u32 level;  /* out only */
 __u32 prio;
};
struct tc_htb_glob {
 __u32 version;  /* to match HTB/TC */
    __u32 rate2quantum; /* bps->quantum divisor */
    __u32 defcls;  /* default class number */
 __u32 debug;  /* debug flags */

 /* stats */
 __u32 direct_pkts; /* count of non shaped packets */
};
enum {
 TCA_HTB_UNSPEC,
 TCA_HTB_PARMS,
 TCA_HTB_INIT,
 TCA_HTB_CTAB,
 TCA_HTB_RTAB,
 TCA_HTB_DIRECT_QLEN,
 TCA_HTB_RATE64,
 TCA_HTB_CEIL64,
 TCA_HTB_PAD,
 TCA_HTB_OFFLOAD,
 __TCA_HTB_MAX,
};

#define TCA_HTB_MAX (__TCA_HTB_MAX - 1)

struct tc_htb_xstats {
 __u32 lends;
```

```
 __u32 borrows;
 __u32 giants; /* unused since 'Make HTB
 scheduler work with TSO.' */
 __s32 tokens;
 __s32 ctokens;
};

/* HFSC section */

struct tc_hfsc_qopt {
 __u16 defcls;  /* default class */
};

struct tc_service_curve {
 __u32 m1;  /* slope of the first segment in bps */
 __u32 d;  /* x-projection of the first segment in us */
 __u32 m2;  /* slope of the second segment in bps */
};

struct tc_hfsc_stats {
 __u64 work;  /* total work done */
 __u64 rtwork;  /* work done by real-time criteria */
 __u32 period;  /* current period */
 __u32 level;  /* class level in hierarchy */
};

enum {
 TCA_HFSC_UNSPEC,
 TCA_HFSC_RSC,
 TCA_HFSC_FSC,
 TCA_HFSC_USC,
 __TCA_HFSC_MAX,
};

#define TCA_HFSC_MAX (__TCA_HFSC_MAX - 1)

/* Network emulator */

enum {
 TCA_NETEM_UNSPEC,
 TCA_NETEM_CORR,
 TCA_NETEM_DELAY_DIST,
 TCA_NETEM_REORDER,
 TCA_NETEM_CORRUPT,
 TCA_NETEM_LOSS,
 TCA_NETEM_RATE,
 TCA_NETEM_ECN,
 TCA_NETEM_RATE64,
```

```
 TCA_NETEM_PAD,
 TCA_NETEM_LATENCY64,
 TCA_NETEM_JITTER64,
 TCA_NETEM_SLOT,
 TCA_NETEM_SLOT_DIST,
 __TCA_NETEM_MAX,
};

#define
 TCA_NETEM_MAX (__TCA_NETEM_MAX - 1)

struct tc_netem_qopt {
 __u32 latency; /* added delay (us) */
 __u32   limit;  /* fifo limit (packets) */
 __u32 loss;  /* random packet loss (0=none ~0=100%) */
 __u32 gap;  /* re-ordering gap (0 for none) */
 __u32   duplicate; /* random packet dup  (0=none ~0=100%) */
 __u32 jitter;  /* random jitter in latency (us) */
};

struct tc_netem_corr {
 __u32 delay_corr; /* delay correlation */
 __u32 loss_corr; /* packet loss correlation */
 __u32 dup_corr; /* duplicate correlation  */
};

struct tc_netem_reorder {
 __u32 probability;
 __u32 correlation;
};

struct tc_netem_corrupt {
 __u32 probability;
 __u32 correlation;
};

struct tc_netem_rate {
 __u32 rate; /* byte/s */
 __s32 packet_overhead;
 __u32 cell_size;
 __s32 cell_overhead;
};

struct tc_netem_slot {
 __s64   min_delay; /* nsec */
 __s64   max_delay;
 __s32   max_packets;
 __s32   max_bytes;
```

```
 __s64 dist_delay; /* nsec */
 __s64 dist_jitter; /* nsec */
};

enum {
 NETEM_LOSS_UNSPEC,
 NETEM_LOSS_GI,  /*
 General Intuitive - 4 state model */
 NETEM_LOSS_GE,  /* Gilbert Elliot models */
 __NETEM_LOSS_MAX
};
#define NETEM_LOSS_MAX (__NETEM_LOSS_MAX - 1)

/* State transition probabilities for 4 state model */
struct tc_netem_gimodel {
 __u32 p13;
 __u32 p31;
 __u32 p32;
 __u32 p14;
 __u32 p23;
};

/* Gilbert-Elliot models */
struct tc_netem_gemodel {
 __u32 p;
 __u32 r;
 __u32 h;
 __u32 k1;
};

#define NETEM_DIST_SCALE 8192
#define NETEM_DIST_MAX  16384

/* DRR */

enum {
 TCA_DRR_UNSPEC,
 TCA_DRR_QUANTUM,
 __TCA_DRR_MAX
};

#define TCA_DRR_MAX (__TCA_DRR_MAX - 1)

struct tc_drr_stats {
 __u32 deficit;
};

/* MQPRIO */
```

```
#define TC_QOPT_BITMASK 15
#define TC_QOPT_MAX_QUEUE 16

enum {
 TC_MQPRIO_HW_OFFLOAD_NONE, /* no offload requested */
 TC_MQPRIO_HW_OFFLOAD_TCS, /* offload TCs, no queue counts */
 __TC_MQPRIO_HW_OFFLOAD_MAX
};

#define TC_MQPRIO_HW_OFFLOAD_MAX (__TC_MQPRIO_HW_OFFLOAD_MAX - 1)

enum {
 TC_MQPRIO_MODE_DCB,
 TC_MQPRIO_MODE_CHANNEL,
 __TC_MQPRIO_MODE_MAX
};

#define
 __TC_MQPRIO_MODE_MAX (__TC_MQPRIO_MODE_MAX - 1)

enum {
 TC_MQPRIO_SHAPER_DCB,
 TC_MQPRIO_SHAPER_BW_RATE, /* Add new shapers below */
 __TC_MQPRIO_SHAPER_MAX
};

#define __TC_MQPRIO_SHAPER_MAX (__TC_MQPRIO_SHAPER_MAX - 1)

struct tc_mqprio_qopt {
 __u8 num_tc;
 __u8 prio_tc_map[TC_QOPT_BITMASK + 1];
 __u8 hw;
 __u16 count[TC_QOPT_MAX_QUEUE];
 __u16 offset[TC_QOPT_MAX_QUEUE];
};

#define TC_MQPRIO_F_MODE  0x1
#define TC_MQPRIO_F_SHAPER  0x2
#define TC_MQPRIO_F_MIN_RATE  0x4
#define TC_MQPRIO_F_MAX_RATE  0x8

enum {
 TCA_MQPRIO_UNSPEC,
 TCA_MQPRIO_MODE,
 TCA_MQPRIO_SHAPER,
 TCA_MQPRIO_MIN_RATE64,
 TCA_MQPRIO_MAX_RATE64,
 __TCA_MQPRIO_MAX,
```

```
};

#define TCA_MQPRIO_MAX (__TCA_MQPRIO_MAX - 1)

/* SFB */

enum {
 TCA_SFB_UNSPEC,
 TCA_SFB_PARMS,
 __TCA_SFB_MAX,
};

#define TCA_SFB_MAX (__TCA_SFB_MAX - 1)

/*
* Note: increment, decrement are Q0.16 fixed-point values.
*/
struct tc_sfb_qopt {
 __u32 rehash_interval; /* delay between hash move, in ms */
 __u32 warmup_time; /* double buffering
 warmup time in ms (warmup_time < rehash_interval) */
 __u32 max;  /* max len of qlen_min */
 __u32 bin_size;  /* maximum queue length per bin */
 __u32 increment; /* probability increment, (d1 in Blue) */
 __u32 decrement; /* probability decrement, (d2 in Blue) */
 __u32 limit;  /* max SFB queue length */
 __u32 penalty_rate; /* inelastic flows are rate limited to 'rate' pps */
 __u32 penalty_burst;
};

struct tc_sfb_xstats {
 __u32 earlydrop;
 __u32 penaltydrop;
 __u32 bucketdrop;
 __u32 queuedrop;
 __u32 childdrop; /* drops in child qdisc */
 __u32 marked;
 __u32 maxqlen;
 __u32 maxprob;
 __u32 avgprob;
};

#define SFB_MAX_PROB 0xFFFF

/* QFQ */
enum {
 TCA_QFQ_UNSPEC,
 TCA_QFQ_WEIGHT,
```

```
 TCA_QFQ_LMAX,
 __TCA_QFQ_MAX
};

#define TCA_QFQ_MAX (__TCA_QFQ_MAX - 1)

struct tc_qfq_stats {
 __u32 weight;
 __u32 lmax;
};

/* CODEL */

enum {
 TCA_CODEL_UNSPEC,
 TCA_CODEL_TARGET,
 TCA_CODEL_LIMIT,
 TCA_CODEL_INTERVAL,
 TCA_CODEL_ECN,
 TCA_CODEL_CE_THRESHOLD,
 __TCA_CODEL_MAX
};

#define TCA_CODEL_MAX (__TCA_CODEL_MAX
 - 1)

struct tc_codel_xstats {
 __u32 maxpacket; /* largest packet we've seen so far */
 __u32 count;    /* how many drops we've done since the last time we
       * entered dropping state
       */
 __u32 lastcount; /* count at entry to dropping state */
 __u32 ldelay;    /* in-queue delay seen by most recently dequeued packet */
 __s32 drop_next; /* time to drop next packet */
 __u32 drop_overlimit; /* number of time max qdisc packet limit was hit */
 __u32 ecn_mark;  /* number of packets we ECN marked instead of dropped */
 __u32 dropping;  /* are we in dropping state ? */
 __u32 ce_mark;   /* number of CE marked packets because of ce_threshold */
};

/* FQ_CODEL */

enum {
 TCA_FQ_CODEL_UNSPEC,
 TCA_FQ_CODEL_TARGET,
 TCA_FQ_CODEL_LIMIT,
 TCA_FQ_CODEL_INTERVAL,
 TCA_FQ_CODEL_ECN,
```

```
 TCA_FQ_CODEL_FLOWS,
 TCA_FQ_CODEL_QUANTUM,
 TCA_FQ_CODEL_CE_THRESHOLD,
 TCA_FQ_CODEL_DROP_BATCH_SIZE,
 TCA_FQ_CODEL_MEMORY_LIMIT,
 __TCA_FQ_CODEL_MAX
};

#define TCA_FQ_CODEL_MAX (__TCA_FQ_CODEL_MAX
 - 1)

enum {
 TCA_FQ_CODEL_XSTATS_QDISC,
 TCA_FQ_CODEL_XSTATS_CLASS,
};

struct tc_fq_codel_qd_stats {
 __u32 maxpacket; /* largest packet we've seen so far */
 __u32 drop_overlimit; /* number of time max qdisc
    * packet limit was hit
    */
 __u32 ecn_mark; /* number of packets we ECN marked
    * instead of being dropped
    */
 __u32 new_flow_count; /* number of time packets
    * created a 'new flow'
    */
 __u32 new_flows_len; /* count of flows in new list */
 __u32 old_flows_len; /* count of flows in old list */
 __u32 ce_mark; /* packets above ce_threshold */
 __u32 memory_usage; /* in bytes */
 __u32 drop_overmemory;
};

struct tc_fq_codel_cl_stats {
 __s32 deficit;
 __u32 ldelay;  /* in-queue delay seen by most recently
    * dequeued packet
    */
 __u32 count;
 __u32 lastcount;
 __u32 dropping;
 __s32 drop_next;
};

struct tc_fq_codel_xstats {
 __u32 type;
 union {
```

```
  struct tc_fq_codel_qd_stats qdisc_stats;
  struct tc_fq_codel_cl_stats class_stats;
 };
};

/*
 FQ */

enum {
 TCA_FQ_UNSPEC,

 TCA_FQ_PLIMIT,  /* limit of total number of packets in queue */

 TCA_FQ_FLOW_PLIMIT, /* limit of packets per flow */

 TCA_FQ_QUANTUM,  /* RR quantum */

 TCA_FQ_INITIAL_QUANTUM,  /* RR quantum for new flow */

 TCA_FQ_RATE_ENABLE, /* enable/disable rate limiting */

 TCA_FQ_FLOW_DEFAULT_RATE,/* obsolete, do not use */

 TCA_FQ_FLOW_MAX_RATE, /* per flow max rate */

 TCA_FQ_BUCKETS_LOG, /* log2(number of buckets) */

 TCA_FQ_FLOW_REFILL_DELAY, /* flow credit refill delay in usec */

 TCA_FQ_ORPHAN_MASK, /* mask applied to orphaned skb hashes */

 TCA_FQ_LOW_RATE_THRESHOLD, /* per packet delay under this rate */

 TCA_FQ_CE_THRESHOLD, /* DCTCP-like CE-marking threshold */

 __TCA_FQ_MAX
};

#define TCA_FQ_MAX (__TCA_FQ_MAX - 1)

struct tc_fq_qd_stats {
 __u64 gc_flows;
 __u64 highprio_packets;
 __u64 tcp_retrans;
 __u64 throttled;
 __u64 flows_plimit;
 __u64 pkts_too_long;
 __u64 allocation_errors;
```

```
 __s64 time_next_delayed_flow;
 __u32 flows;
 __u32 inactive_flows;
 __u32 throttled_flows;
 __u32 unthrottle_latency_ns;
 __u64 ce_mark;  /*
 packets above ce_threshold */
};

/* Heavy-Hitter Filter */

enum {
 TCA_HHF_UNSPEC,
 TCA_HHF_BACKLOG_LIMIT,
 TCA_HHF_QUANTUM,
 TCA_HHF_HH_FLOWS_LIMIT,
 TCA_HHF_RESET_TIMEOUT,
 TCA_HHF_ADMIT_BYTES,
 TCA_HHF_EVICT_TIMEOUT,
 TCA_HHF_NON_HH_WEIGHT,
 __TCA_HHF_MAX
};

#define TCA_HHF_MAX (__TCA_HHF_MAX - 1)

struct tc_hhf_xstats {
 __u32 drop_overlimit; /* number of times max qdisc packet limit
     * was hit
     */
 __u32 hh_overlimit;   /* number of times max heavy-hitters was hit */
 __u32 hh_tot_count;   /* number of captured heavy-hitters so far */
 __u32 hh_cur_count;   /* number of current heavy-hitters */
};

/* PIE */
enum {
 TCA_PIE_UNSPEC,
 TCA_PIE_TARGET,
 TCA_PIE_LIMIT,
 TCA_PIE_TUPDATE,
 TCA_PIE_ALPHA,
 TCA_PIE_BETA,
 TCA_PIE_ECN,
 TCA_PIE_BYTEMODE,
 __TCA_PIE_MAX
};
#define TCA_PIE_MAX   (__TCA_PIE_MAX - 1)
```

```
struct tc_pie_xstats {
 __u32 prob;            /* current probability
 */
 __u32 delay;           /* current delay in ms */
 __u32 avg_dq_rate;      /* current average dq_rate in bits/pie_time */
 __u32 packets_in;       /* total number of packets enqueued */
 __u32 dropped;          /* packets dropped due to pie_action */
 __u32 overlimit;        /* dropped due to lack of space in queue */
 __u32 maxq;             /* maximum queue size */
 __u32 ecn_mark;         /* packets marked with ecn*/
};

/* CBS */
struct tc_cbs_qopt {
 __u8 offload;
 __u8 _pad[3];
 __s32 hicredit;
 __s32 locredit;
 __s32 idleslope;
 __s32 sendslope;
};

enum {
 TCA_CBS_UNSPEC,
 TCA_CBS_PARMS,
 __TCA_CBS_MAX,
};

#define TCA_CBS_MAX (__TCA_CBS_MAX - 1)


/* ETF */
struct tc_etf_qopt {
 __s32 delta;
 __s32 clockid;
 __u32 flags;
#define TC_ETF_DEADLINE_MODE_ON BIT(0)
#define TC_ETF_OFFLOAD_ON BIT(1)
};

enum {
 TCA_ETF_UNSPEC,
 TCA_ETF_PARMS,
 __TCA_ETF_MAX,
};

#define TCA_ETF_MAX (__TCA_ETF_MAX - 1)
```

```
/* CAKE */
enum {
 TCA_CAKE_UNSPEC,
 TCA_CAKE_PAD,
 TCA_CAKE_BASE_RATE64,
 TCA_CAKE_DIFFSERV_MODE,
 TCA_CAKE_ATM,
 TCA_CAKE_FLOW_MODE,
 TCA_CAKE_OVERHEAD,
 TCA_CAKE_RTT,
 TCA_CAKE_TARGET,
 TCA_CAKE_AUTORATE,
 TCA_CAKE_MEMORY,
 TCA_CAKE_NAT,
 TCA_CAKE_RAW,
 TCA_CAKE_WASH,
 TCA_CAKE_MPU,
 TCA_CAKE_INGRESS,
 TCA_CAKE_ACK_FILTER,
 TCA_CAKE_SPLIT_GSO,
 __TCA_CAKE_MAX
};
#define
 TCA_CAKE_MAX (__TCA_CAKE_MAX - 1)

enum {
 __TCA_CAKE_STATS_INVALID,
 TCA_CAKE_STATS_PAD,
 TCA_CAKE_STATS_CAPACITY_ESTIMATE64,
 TCA_CAKE_STATS_MEMORY_LIMIT,
 TCA_CAKE_STATS_MEMORY_USED,
 TCA_CAKE_STATS_AVG_NETOFF,
 TCA_CAKE_STATS_MIN_NETLEN,
 TCA_CAKE_STATS_MAX_NETLEN,
 TCA_CAKE_STATS_MIN_ADJLEN,
 TCA_CAKE_STATS_MAX_ADJLEN,
 TCA_CAKE_STATS_TIN_STATS,
 TCA_CAKE_STATS_DEFICIT,
 TCA_CAKE_STATS_COBALT_COUNT,
 TCA_CAKE_STATS_DROPPING,
 TCA_CAKE_STATS_DROP_NEXT_US,
 TCA_CAKE_STATS_P_DROP,
 TCA_CAKE_STATS_BLUE_TIMER_US,
 __TCA_CAKE_STATS_MAX
};
#define TCA_CAKE_STATS_MAX (__TCA_CAKE_STATS_MAX - 1)
```

```
enum {
 __TCA_CAKE_TIN_STATS_INVALID,
 TCA_CAKE_TIN_STATS_PAD,
 TCA_CAKE_TIN_STATS_SENT_PACKETS,
 TCA_CAKE_TIN_STATS_SENT_BYTES64,
 TCA_CAKE_TIN_STATS_DROPPED_PACKETS,
 TCA_CAKE_TIN_STATS_DROPPED_BYTES64,
 TCA_CAKE_TIN_STATS_ACKS_DROPPED_PACKETS,
 TCA_CAKE_TIN_STATS_ACKS_DROPPED_BYTES64,
 TCA_CAKE_TIN_STATS_ECN_MARKED_PACKETS,
 TCA_CAKE_TIN_STATS_ECN_MARKED_BYTES64,
 TCA_CAKE_TIN_STATS_BACKLOG_PACKETS,
 TCA_CAKE_TIN_STATS_BACKLOG_BYTES,
 TCA_CAKE_TIN_STATS_THRESHOLD_RATE64,
 TCA_CAKE_TIN_STATS_TARGET_US,
 TCA_CAKE_TIN_STATS_INTERVAL_US,
 TCA_CAKE_TIN_STATS_WAY_INDIRECT_HITS,
 TCA_CAKE_TIN_STATS_WAY_MISSES,
 TCA_CAKE_TIN_STATS_WAY_COLLISIONS,
 TCA_CAKE_TIN_STATS_PEAK_DELAY_US,
 TCA_CAKE_TIN_STATS_AVG_DELAY_US,
 TCA_CAKE_TIN_STATS_BASE_DELAY_US,
 TCA_CAKE_TIN_STATS_SPARSE_FLOWS,
 TCA_CAKE_TIN_STATS_BULK_FLOWS,
 TCA_CAKE_TIN_STATS_UNRESPONSIVE_FLOWS,
 TCA_CAKE_TIN_STATS_MAX_SKBLEN,
 TCA_CAKE_TIN_STATS_FLOW_QUANTUM,
 __TCA_CAKE_TIN_STATS_MAX
};
#define
 TCA_CAKE_TIN_STATS_MAX (__TCA_CAKE_TIN_STATS_MAX - 1)
#define TC_CAKE_MAX_TINS (8)

enum {
 CAKE_FLOW_NONE = 0,
 CAKE_FLOW_SRC_IP,
 CAKE_FLOW_DST_IP,
 CAKE_FLOW_HOSTS,
   /* = CAKE_FLOW_SRC_IP | CAKE_FLOW_DST_IP */
 CAKE_FLOW_FLOWS,
 CAKE_FLOW_DUAL_SRC, /* = CAKE_FLOW_SRC_IP | CAKE_FLOW_FLOWS */
 CAKE_FLOW_DUAL_DST, /* = CAKE_FLOW_DST_IP | CAKE_FLOW_FLOWS */
 CAKE_FLOW_TRIPLE,   /* = CAKE_FLOW_HOSTS  | CAKE_FLOW_FLOWS */
 CAKE_FLOW_MAX,
};

enum {
 CAKE_DIFFSERV_DIFFSERV3 = 0,
```

```
 CAKE_DIFFSERV_DIFFSERV4,
 CAKE_DIFFSERV_DIFFSERV8,
 CAKE_DIFFSERV_BESTEFFORT,
 CAKE_DIFFSERV_PRECEDENCE,
 CAKE_DIFFSERV_MAX
};

enum {
 CAKE_ACK_NONE = 0,
 CAKE_ACK_FILTER,
 CAKE_ACK_AGGRESSIVE,
 CAKE_ACK_MAX
};

enum {
 CAKE_ATM_NONE = 0,
 CAKE_ATM_ATM,
 CAKE_ATM_PTM,
 CAKE_ATM_MAX
};


/* TAPRIO */
enum {
 TC_TAPRIO_CMD_SET_GATES = 0x00,
 TC_TAPRIO_CMD_SET_AND_HOLD = 0x01,
 TC_TAPRIO_CMD_SET_AND_RELEASE = 0x02,
};

enum {
 TCA_TAPRIO_SCHED_ENTRY_UNSPEC,
 TCA_TAPRIO_SCHED_ENTRY_INDEX, /* u32 */
 TCA_TAPRIO_SCHED_ENTRY_CMD, /* u8 */
 TCA_TAPRIO_SCHED_ENTRY_GATE_MASK, /* u32 */
 TCA_TAPRIO_SCHED_ENTRY_INTERVAL, /* u32 */
 __TCA_TAPRIO_SCHED_ENTRY_MAX,
};
#define
 TCA_TAPRIO_SCHED_ENTRY_MAX (__TCA_TAPRIO_SCHED_ENTRY_MAX - 1)

/* The format for schedule entry list is:
* [TCA_TAPRIO_SCHED_ENTRY_LIST]
*   [TCA_TAPRIO_SCHED_ENTRY]
*     [TCA_TAPRIO_SCHED_ENTRY_CMD]
*     [TCA_TAPRIO_SCHED_ENTRY_GATES]
*     [TCA_TAPRIO_SCHED_ENTRY_INTERVAL]
*/
enum {
```

```
 TCA_TAPRIO_SCHED_UNSPEC,
 TCA_TAPRIO_SCHED_ENTRY,
 __TCA_TAPRIO_SCHED_MAX,
};

#define TCA_TAPRIO_SCHED_MAX (__TCA_TAPRIO_SCHED_MAX - 1)

enum {
 TCA_TAPRIO_ATTR_UNSPEC,
 TCA_TAPRIO_ATTR_PRIOMAP, /* struct tc_mqprio_qopt */
 TCA_TAPRIO_ATTR_SCHED_ENTRY_LIST, /* nested of entry */
 TCA_TAPRIO_ATTR_SCHED_BASE_TIME, /* s64 */
 TCA_TAPRIO_ATTR_SCHED_SINGLE_ENTRY, /* single entry */
 TCA_TAPRIO_ATTR_SCHED_CLOCKID, /* s32 */
 TCA_TAPRIO_PAD,
 __TCA_TAPRIO_ATTR_MAX,
};

#define TCA_TAPRIO_ATTR_MAX (__TCA_TAPRIO_ATTR_MAX - 1)

#endif
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __LIBBPF_STR_ERROR_H
#define __LIBBPF_STR_ERROR_H

#define STRERR_BUFSIZE  128

char *libbpf_strerror_r(int err, char *dst, int len);

#endif /* __LIBBPF_STR_ERROR_H */
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2021 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_CONNTRACK_TYPES_H__
#define __CALI_CONNTRACK_TYPES_H__

// Connection tracking.

struct calico_ct_key {
 __u32 protocol;
 ipv46_addr_t addr_a; // NBO
 ipv46_addr_t addr_b; // NBO
 __u16 port_a, port_b; // HBO
};

enum cali_ct_type {
 CALI_CT_TYPE_NORMAL = 0x00, /* Non-NATted entry. */
```

```
 CALI_CT_TYPE_NAT_FWD = 0x01, /* Forward entry for a DNATted flow, keyed on orig src/dst.
     * Points to the reverse entry.
     */
 CALI_CT_TYPE_NAT_REV = 0x02, /* "Reverse" entry for a NATted flow, contains NAT +
     * tracking information.
     */
};

#define CALI_CT_FLAG_NAT_OUT 0x01
#define CALI_CT_FLAG_DSR_FWD 0x02 /* marks entry into the tunnel on the fwd node when dsr */
#define CALI_CT_FLAG_NP_FWD 0x04 /* marks entry into the tunnel on the fwd node */
#define CALI_CT_FLAG_SKIP_FIB 0x08 /* marks traffic that should pass
 through host IP stack */
#define CALI_CT_FLAG_RES_0x10 0x10 /* reserved */
#define CALI_CT_FLAG_RES_0x20 0x20 /* reserved */
#define CALI_CT_FLAG_EXT_LOCAL 0x40 /* marks traffic from external client to a local service */
#define CALI_CT_FLAG_VIA_NAT_IF 0x80 /* marks connection first seen on the service veth */
#define CALI_CT_FLAG_BA  0x100 /* marks that src->dst is the B->A leg */
#define CALI_CT_FLAG_HOST_PSNAT 0x200 /* marks that this is from host port collision resolution */
#define CALI_CT_FLAG_SVC_SELF 0x400 /* marks connections from a pod via service to self */
#define CALI_CT_FLAG_NP_LOOP 0x800 /* marks connections that were turned around when accessing nodeport
on a local IP */
#define CALI_CT_FLAG_NP_REMOTE 0x1000 /* marks connections from local host to remote backend of a
nodeport */
#define CALI_CT_FLAG_NP_NO_DSR 0x2000 /* marks connections from a client which is excluded from DSR */

struct calico_ct_leg {
 __u64 bytes;
 __u32 packets;
 __u32 seqno;

 __u32 syn_seen:1;
 __u32
 ack_seen:1;
 __u32 fin_seen:1;
 __u32 rst_seen:1;

 __u32 approved:1;

 __u32 opener:1;

 __u32 ifindex; /* For a CT leg where packets ingress through an interface towards
   * the host, this is the ingress interface index.  For a CT leg
   * where packets originate _from_ the host, it's CT_INVALID_IFINDEX
   * (0).
   */
};
```

```
#define CT_INVALID_IFINDEX 0
struct calico_ct_value {
 __u64 created;
 __u64 last_seen; // 8
 __u8 type;   // 16
 __u8 flags;

 // Important to use explicit padding, otherwise the compiler can decide
 // not to zero the padding bytes, which upsets the verifier.  Worse than
 // that, debug logging often prevents such optimisation resulting in
 // failures when debug logging is compiled out only :-).
 __u8 pad0[5];
 __u8 flags2;
 union {
  // CALI_CT_TYPE_NORMAL and CALI_CT_TYPE_NAT_REV.
  struct {
   struct calico_ct_leg a_to_b; // 24
   struct calico_ct_leg b_to_a; // 48

   // CALI_CT_TYPE_NAT_REV
   ipv46_addr_t tun_ip;                    // 72
   ipv46_addr_t
 orig_ip;                    // 76
   __u16 orig_port;                  // 80
   __u16 orig_sport;                 // 82
   ipv46_addr_t orig_sip;                  // 84
  };

  // CALI_CT_TYPE_NAT_FWD; key for the CALI_CT_TYPE_NAT_REV entry.
  struct {
   struct calico_ct_key nat_rev_key;  // 24
   __u16 nat_sport;
#ifdef IPVER6
   __u8 pad2[60];
#else
   __u8 pad2[46];
#endif
  };
 };

 /* 64bit aligned by here */
};

static CALI_BPF_INLINE void __xxx_compile_asserts(void) {
#pragma clang diagnostic push
#pragma clang diagnostic ignored "-Wunused-local-typedef"
#ifdef IPVER6
 COMPILE_TIME_ASSERT((sizeof(struct calico_ct_value) == 128))
```

```
#else
 COMPILE_TIME_ASSERT((sizeof(struct calico_ct_value) == 88))
#endif
#pragma clang diagnostic pop
}

#define ct_value_set_flags(v, f) do {  \
 (v)->flags |= ((f) & 0xff);  \
 (v)->flags2 |= (((f) >> 8) & 0xff); \
} while(0)

#define ct_value_get_flags(v) ({   \
 __u16 ret = (v)->flags | ((v)->flags2 << 8); \
      \
 ret;     \
})

struct
 ct_lookup_ctx {
 __u8 proto;
 DECLARE_IP_ADDR(src);
 DECLARE_IP_ADDR(dst);
 __u16 sport;
 __u16 dport;
 struct tcphdr *tcp;
};

struct ct_create_ctx {
 ipv46_addr_t orig_src;
 ipv46_addr_t src;
 ipv46_addr_t orig_dst;
 ipv46_addr_t dst;
 __u16 sport;
 __u16 dport;
 __u16 orig_dport;
 __u16 orig_sport;
 struct tcphdr *tcp;
 ipv46_addr_t tun_ip; /* is set when the packet arrive through the NP tunnel.
  * It is also set on the first node when we create the
  * initial CT entry for the tunneled traffic. */
 __u16 flags;
 __u8 proto;
 __u8 __pad;
 enum cali_ct_type type;
 bool allow_return;
};

#ifdef IPVER6
```

```
CALI_MAP_NAMED(cali_v6_ct, cali_ct, 3,
#else
CALI_MAP_NAMED(cali_v4_ct, cali_ct, 3,
#endif
  BPF_MAP_TYPE_HASH,
  struct calico_ct_key, struct calico_ct_value,
  512000, BPF_F_NO_PREALLOC)

enum calico_ct_result_type {
 /* CALI_CT_NEW means that the packet is not part of a known conntrack flow.
  * TCP SYN packets are always treated as NEW so they always go through policy. */
 CALI_CT_NEW
 = 0,
 /* CALI_CT_MID_FLOW_MISS indicates that the packet is known to be of a type that
  * cannot be the start of a flow but it also has no matching conntrack entry.  For
  * example, a TCP packet without SYN set. */
 CALI_CT_MID_FLOW_MISS = 1,
 /* CALI_CT_ESTABLISHED indicates the packet is part of a known flow, approved at "this"
  * side.  I.e. it's safe to let this packet through _this_ program.  If a packet is
  * ESTABLISHED but not ESTABLISHED_BYPASS then it has only been approved by _this_
  * program, but downstream programs still need to have their say. For example, if this
  * is a workload egress program then it implements egress policy for one workload. If
  * that workload communicates with another workload on the same host then the packet
  * needs to be approved by the ingress policy program attached to the other workload. */
 CALI_CT_ESTABLISHED = 2,
 /* CALI_CT_ESTABLISHED_BYPASS indicates the packet is part of a known flow and *both*
  * legs of the conntrack
 entry have been approved.  Hence it is safe to set the bypass
  * mark bit on the traffic so that any downstream BPF programs let the packet through
  * automatically. */
 CALI_CT_ESTABLISHED_BYPASS = 3,
 /* CALI_CT_ESTABLISHED_SNAT means the packet is a response packet on a NATted flow;
  * hence the packet needs to be SNATted. The new src IP and port are returned in
  * result.nat_ip and result.nat_port. */
 CALI_CT_ESTABLISHED_SNAT = 4,
 /* CALI_CT_ESTABLISHED_DNAT means the packet is a request packet on a NATted flow;
  * hence the packet needs to be DNATted. The new dst IP and port are returned in
  * result.nat_ip and result.nat_port. */
 CALI_CT_ESTABLISHED_DNAT = 5,
 /* CALI_CT_INVALID is returned for packets that cannot be parsed (e.g. invalid ICMP response)
  * or for packet that have a conntrack entry that is only approved by the other leg
  * (indicating that policy on this leg failed to allow the packet). */
 CALI_CT_INVALID = 6,
};

#define CT_RES_RELATED        0x100
#define
```

```
 CT_RES_RPF_FAILED      0x200
#define CT_RES_TUN_SRC_CHANGED 0x400
#define CT_RES_RESERVED_800 0x800
#define CT_RES_SYN  0x1000
#define CT_RES_CONFIRMED 0x2000

#define ct_result_rc(rc)   ((rc) & 0xff)
#define ct_result_flags(rc)   ((rc) & ~0xff)
#define ct_result_set_rc(val, rc)  ((val) = ct_result_flags(val) | (rc))
#define ct_result_set_flag(val, flags)  ((val) |= (flags))
#define ct_result_clear_flag(val, flags) ((val) &= ~(flags))

#define ct_result_is_related(rc) ((rc) & CT_RES_RELATED)
#define ct_result_rpf_failed(rc) ((rc) & CT_RES_RPF_FAILED)
#define ct_result_tun_src_changed(rc) ((rc) & CT_RES_TUN_SRC_CHANGED)
#define ct_result_is_syn(rc)  ((rc) & CT_RES_SYN)
#define ct_result_is_confirmed(rc) ((rc) & CT_RES_CONFIRMED)

struct calico_ct_result {
 __s16 rc;
 __u16 flags;
 ipv46_addr_t nat_ip;
 ipv46_addr_t nat_sip;
 __u16 nat_port;
 __u16 nat_sport;
 ipv46_addr_t tun_ip;
 __u32 ifindex_fwd; /* if set, the ifindex where the packet should be forwarded */
 __u32 ifindex_created;
 /* For a CT state that was created by a packet ingressing
    * through an interface towards the host, this is the
    * ingress interface index.  For a CT state created by a
    * packet _from_ the host, it's CT_INVALID_IFINDEX (0).
    */
};

#endif /* __CALI_CONNTRAC_TYPESK_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

#ifndef __LINUX_COMPILER_H
#define __LINUX_COMPILER_H

#define likely(x)  __builtin_expect(!!(x), 1)
#define unlikely(x)  __builtin_expect(!!(x), 0)

#define READ_ONCE(x)  (*(volatile typeof(x) *)&x)
#define WRITE_ONCE(x, v) (*(volatile typeof(x) *)&x) = (v)

#define barrier()  asm volatile("" ::: "memory")
```

```
#if defined(__x86_64__)

# define smp_rmb()  barrier()
# define smp_wmb()  barrier()
# define smp_mb()  asm volatile("lock; addl $0,-132(%%rsp)" ::: "memory", "cc")

# define smp_store_release(p, v)  \
do {      \
 barrier();    \
 WRITE_ONCE(*p, v);   \
} while (0)

# define smp_load_acquire(p)   \
({      \
 typeof(*p) ___p = READ_ONCE(*p); \
 barrier();    \
 ___p;     \
})

#elif defined(__aarch64__)

# define smp_rmb()  asm volatile("dmb ishld" ::: "memory")
# define smp_wmb()  asm volatile("dmb ishst" ::: "memory")
# define smp_mb()  asm volatile("dmb ish" ::: "memory")

#endif

#ifndef smp_mb
# define smp_mb()  __sync_synchronize()
#endif

#ifndef
 smp_rmb
# define smp_rmb()  smp_mb()
#endif

#ifndef smp_wmb
# define smp_wmb()  smp_mb()
#endif

#ifndef smp_store_release
# define smp_store_release(p, v)  \
do {      \
 smp_mb();    \
 WRITE_ONCE(*p, v);   \
} while (0)
#endif
```

```
#ifndef smp_load_acquire
# define smp_load_acquire(p)   \
({      \
 typeof(*p) ___p = READ_ONCE(*p); \
 smp_mb();    \
 ___p;     \
})
#endif

#endif /* __LINUX_COMPILER_H */
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/*
* NETLINK      Netlink attributes
*
* Copyright (c) 2003-2013 Thomas Graf <tgraf@suug.ch>
*/

#ifndef __LIBBPF_NLATTR_H
#define __LIBBPF_NLATTR_H

#include <stdint.h>
#include <string.h>
#include <errno.h>
#include <linux/netlink.h>
#include <linux/rtnetlink.h>
#include <linux/genetlink.h>

/* avoid multiple definition of netlink features */
#define __LINUX_NETLINK_H

/**
* Standard attribute types to specify validation policy
*/
enum {
 LIBBPF_NLA_UNSPEC, /**< Unspecified type, binary data chunk */
 LIBBPF_NLA_U8,  /**< 8 bit integer */
 LIBBPF_NLA_U16,  /**< 16 bit integer */
 LIBBPF_NLA_U32,  /**< 32 bit integer */
 LIBBPF_NLA_U64,  /**< 64 bit integer */
 LIBBPF_NLA_STRING, /**< NUL terminated character string */
 LIBBPF_NLA_FLAG, /**< Flag */
 LIBBPF_NLA_MSECS, /**< Micro seconds (64bit) */
 LIBBPF_NLA_NESTED, /**< Nested attributes */
 __LIBBPF_NLA_TYPE_MAX,
};
```

```
#define LIBBPF_NLA_TYPE_MAX (__LIBBPF_NLA_TYPE_MAX -
 1)

/**
* @ingroup attr
* Attribute validation policy.
*
* See section @core_doc{core_attr_parse,Attribute Parsing} for more details.
*/
struct libbpf_nla_policy {
 /** Type of attribute or LIBBPF_NLA_UNSPEC */
 uint16_t type;

 /** Minimal length of payload required */
 uint16_t minlen;

 /** Maximal length of payload allowed */
 uint16_t maxlen;
};

struct libbpf_nla_req {
 struct nlmsghdr nh;
 union {
  struct ifinfomsg ifinfo;
  struct tcmsg tc;
  struct genlmsghdr gnl;
 };
 char buf[128];
};

/**
* @ingroup attr
* Iterate over a stream of attributes
* @arg pos loop counter, set to current attribute
* @arg head head of attribute stream
* @arg len length of attribute stream
* @arg rem initialized to len, holds bytes currently remaining in stream
*/
#define libbpf_nla_for_each_attr(pos, head, len, rem) \
 for (pos = head, rem = len; \
      nla_ok(pos, rem); \
      pos = nla_next(pos, &(rem)))

/**
* libbpf_nla_data - head of payload
* @nla: netlink attribute
*/
static
```

```
 inline void *libbpf_nla_data(const struct nlattr *nla)
{
 return (void *)nla + NLA_HDRLEN;
}

static inline uint8_t libbpf_nla_getattr_u8(const struct nlattr *nla)
{
 return *(uint8_t *)libbpf_nla_data(nla);
}

static inline uint16_t libbpf_nla_getattr_u16(const struct nlattr *nla)
{
 return *(uint16_t *)libbpf_nla_data(nla);
}

static inline uint32_t libbpf_nla_getattr_u32(const struct nlattr *nla)
{
 return *(uint32_t *)libbpf_nla_data(nla);
}

static inline uint64_t libbpf_nla_getattr_u64(const struct nlattr *nla)
{
 return *(uint64_t *)libbpf_nla_data(nla);
}

static inline const char *libbpf_nla_getattr_str(const struct nlattr *nla)
{
 return (const char *)libbpf_nla_data(nla);
}

/**
* libbpf_nla_len - length of payload
* @nla: netlink attribute
*/
static inline int libbpf_nla_len(const struct nlattr *nla)
{
 return nla->nla_len - NLA_HDRLEN;
}

int libbpf_nla_parse(struct nlattr *tb[], int maxtype, struct nlattr *head,
       int len, struct libbpf_nla_policy *policy);
int
 libbpf_nla_parse_nested(struct nlattr *tb[], int maxtype,
       struct nlattr *nla,
       struct libbpf_nla_policy *policy);

int libbpf_nla_dump_errormsg(struct nlmsghdr *nlh);
```

```
static inline struct nlattr *nla_data(struct nlattr *nla)
{
 return (struct nlattr *)((void *)nla + NLA_HDRLEN);
}

static inline struct nlattr *req_tail(struct libbpf_nla_req *req)
{
 return (struct nlattr *)((void *)req + NLMSG_ALIGN(req->nh.nlmsg_len));
}

static inline int nlattr_add(struct libbpf_nla_req *req, int type,
        const void *data, int len)
{
 struct nlattr *nla;

 if (NLMSG_ALIGN(req->nh.nlmsg_len) + NLA_ALIGN(NLA_HDRLEN + len) > sizeof(*req))
  return -EMSGSIZE;
 if (!!data != !!len)
  return -EINVAL;

 nla = req_tail(req);
 nla->nla_type = type;
 nla->nla_len = NLA_HDRLEN + len;
 if (data)
  memcpy(nla_data(nla), data, len);
 req->nh.nlmsg_len = NLMSG_ALIGN(req->nh.nlmsg_len) + NLA_ALIGN(nla->nla_len);
 return 0;
}

static inline struct nlattr *nlattr_begin_nested(struct libbpf_nla_req
 *req, int type)
{
 struct nlattr *tail;

 tail = req_tail(req);
 if (nlattr_add(req, type | NLA_F_NESTED, NULL, 0))
  return NULL;
 return tail;
}

static inline void nlattr_end_nested(struct libbpf_nla_req *req,
         struct nlattr *tail)
{
 tail->nla_len = (void *)req_tail(req) - (void *)tail;
}

#endif /* __LIBBPF_NLATTR_H */
```

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==========

```
// Project Calico BPF dataplane programs.
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#ifndef __CALI_CONNTRACK_H__
#define __CALI_CONNTRACK_H__

#include <linux/in.h>
#include "nat.h"
#include "bpf.h"
#include "icmp.h"
#include "types.h"
#include "rpf.h"

#ifdef IPVER6
#define IPPROTO_ICMP_46 IPPROTO_ICMPV6
#else
#define IPPROTO_ICMP_46 IPPROTO_ICMP
#endif

// Connection tracking.

#define PSNAT_RETRIES 3
```

```
static CALI_BPF_INLINE int psnat_get_port(struct cali_tc_ctx *ctx)
{
 return PSNAT_START + (bpf_get_prandom_u32() % PSNAT_LEN);
}

#ifdef IPVER6

static CALI_BPF_INLINE bool  src_lt_dest(ipv6_addr_t *ip_src, ipv6_addr_t *ip_dst, __u16 sport, __u16 dport)
{
 int ret = ipv6_addr_t_cmp(ip_src, ip_dst);

 if (ret != 0) {
  return ret < 0;
 }

 return sport < dport;
}

#else

#define src_lt_dest(ip_src, ip_dst, sport, dport) \
 (*(ip_src) < *(ip_dst)) || ((*(ip_src) == *(ip_dst)) && (sport) < (dport))

#endif /* IPVER6
 */

static CALI_BPF_INLINE void fill_ct_key(struct calico_ct_key *k, bool sltd, __u8 proto,
     ipv46_addr_t *ipa, ipv46_addr_t *ipb, __u16 pta, __u16 ptb)
{
 k->protocol = proto;

 if (sltd) {
  k->addr_a = *ipa;
  k->addr_b = *ipb;
  k->port_a = pta;
  k->port_b = ptb;
 } else {
  k->addr_a = *ipb;
  k->addr_b = *ipa;
  k->port_a = ptb;
  k->port_b = pta;
 }
}

#define ct_result_np_node(res)  ((res).flags & CALI_CT_FLAG_NP_FWD)

static CALI_BPF_INLINE void dump_ct_key(struct cali_tc_ctx *ctx, struct calico_ct_key *k)
{
```

```
 CALI_VERB("CT-ALL   key A=" IP_FMT ":%d proto=%d\n", debug_ip(k->addr_a), k->port_a, (int)k->protocol);
 CALI_VERB("CT-ALL   key B=" IP_FMT ":%d size=%d\n", debug_ip(k->addr_b), k->port_b, (int)sizeof(struct
calico_ct_key));
}

static CALI_BPF_INLINE int calico_ct_v4_create_tracking(struct cali_tc_ctx *ctx,
       struct ct_create_ctx *ct_ctx,
       struct calico_ct_key *k)
{
 __u16 sport = ct_ctx->sport;
 __u16 dport = ct_ctx->dport;
 __u16 orig_dport = ct_ctx->orig_dport;
 int
 err = 0;



 __be32 seq = 0;
 bool syn = false;
 __u64 now;

 if (ct_ctx->proto == IPPROTO_TCP) {
  seq = tcp_hdr(ctx)->seq;
  syn = tcp_hdr(ctx)->syn;
 }

 CALI_DEBUG("CT-ALL packet mark is: 0x%x\n", ctx->skb->mark);
 if (skb_seen(ctx->skb)) {
  /* Packet already marked as being from another workload, which will
   * have created a conntrack entry.  Look that one up instead of
   * creating one.
   */
  CALI_VERB("CT-ALL Asked to create entry but packet is marked as "
    "from another endpoint, doing lookup\n");
  bool srcLTDest = src_lt_dest(&ct_ctx->src, &ct_ctx->dst, sport, dport);
  fill_ct_key(k, srcLTDest, ct_ctx->proto, &ct_ctx->src, &ct_ctx->dst, sport, dport);
  struct calico_ct_value *ct_value = cali_ct_lookup_elem(k);
  if (!ct_value) {
   CALI_VERB("CT Packet marked as from workload but got a conntrack miss!\n");
   goto create;
  }
  CALI_VERB("CT Found expected entry, updating...\n");
  if (srcLTDest) {
   CALI_VERB("CT-ALL update src_to_dst A->B\n");
   ct_value->a_to_b.seqno
 = seq;
   ct_value->a_to_b.syn_seen = syn;
   if (CALI_F_TO_HOST) {
    ct_value->a_to_b.approved = 1;
```

```
  } else {
   ct_value->b_to_a.approved = 1;
  }
 } else  {
  CALI_VERB("CT-ALL update src_to_dst B->A\n");
  ct_value->b_to_a.seqno = seq;
  ct_value->b_to_a.syn_seen = syn;
  if (CALI_F_TO_HOST) {
   ct_value->b_to_a.approved = 1;
  } else {
   ct_value->a_to_b.approved = 1;
  }
 }

 return 0;
}

create:
 now = bpf_ktime_get_ns();
 CALI_DEBUG("CT-ALL Creating tracking entry type %d at %llu.\n", ct_ctx->type, now);

 struct calico_ct_value ct_value = {
  .created=now,
  .last_seen=now,
  .type = ct_ctx->type,
  .orig_ip = ct_ctx->orig_dst,
  .orig_port = orig_dport,
 };

 ct_value_set_flags(&ct_value, ct_ctx->flags);
 CALI_DEBUG("CT-ALL tracking entry flags 0x%x\n", ct_value_get_flags(&ct_value));

 ct_value.orig_sip = ct_ctx->orig_src;
 ct_value.orig_sport = ct_ctx->orig_sport;
 CALI_DEBUG("CT-ALL SNAT orig " IP_FMT ":%d\n", debug_ip(ct_ctx->orig_src),
  ct_ctx->orig_sport);


 if (ct_ctx->type == CALI_CT_TYPE_NAT_REV && !ip_void(ct_ctx->tun_ip)) {
  if (ct_ctx->flags & CALI_CT_FLAG_NP_FWD) {
   CALI_DEBUG("CT-ALL nat tunneled to " IP_FMT "\n", debug_ip(ct_ctx->tun_ip));
  } else {
   struct cali_rt *rt = cali_rt_lookup(&ct_ctx->tun_ip);
   if (!rt || !cali_rt_is_host(rt)) {
    CALI_DEBUG("CT-ALL nat tunnel IP not a host " IP_FMT "\n", debug_ip(ct_ctx->tun_ip));
    err = -1;
    goto out;
   }
```

```
  CALI_DEBUG("CT-ALL nat tunneled from " IP_FMT "\n", debug_ip(ct_ctx->tun_ip));
 }
 ct_value.tun_ip = ct_ctx->tun_ip;
}

struct calico_ct_leg *src_to_dst, *dst_to_src;
bool srcLTDest = src_lt_dest(&ct_ctx->src, &ct_ctx->dst, sport, dport);

fill_ct_key(k, srcLTDest, ct_ctx->proto, &ct_ctx->src, &ct_ctx->dst, sport, dport);
if (srcLTDest) {
 CALI_VERB("CT-ALL src_to_dst A->B\n");
 src_to_dst = &ct_value.a_to_b;
 dst_to_src = &ct_value.b_to_a;
} else  {
 CALI_VERB("CT-ALL src_to_dst B->A\n");
 src_to_dst = &ct_value.b_to_a;
 dst_to_src
= &ct_value.a_to_b;
 ct_value_set_flags(&ct_value, CALI_CT_FLAG_BA);
}

dump_ct_key(ctx, k);

src_to_dst->seqno = seq;
src_to_dst->syn_seen = syn;
src_to_dst->opener = 1;
if (CALI_F_TO_HOST) {
 src_to_dst->ifindex = skb_ingress_ifindex(ctx->skb);
} else {
 src_to_dst->ifindex = CT_INVALID_IFINDEX;
}
CALI_DEBUG("NEW src_to_dst->ifindex %d\n", src_to_dst->ifindex);
dst_to_src->ifindex = CT_INVALID_IFINDEX;

if (CALI_F_FROM_WEP) {
 /* src is the from the WEP, policy approved this side */
 src_to_dst->approved = 1;
} else if (CALI_F_FROM_HEP) {
 /* src is the from the HEP, policy approved this side */
 src_to_dst->approved = 1;

 if (ct_ctx->allow_return) {
  /* When we do NAT and forward through the tunnel, we go through
   * a single policy, what we forward we also accept back,
   * approve both sides.
   */
  dst_to_src->approved = 1;
 }
```

```
 CALI_DEBUG("CT-ALL approved source side - from HEP tun allow_return=%d\n",
   ct_ctx->allow_return);
}
else if (CALI_F_TO_HEP && !skb_seen(ctx->skb) && (ct_ctx->type == CALI_CT_TYPE_NAT_REV)) {
 src_to_dst->approved = 1;
 dst_to_src->approved = 1;
 CALI_DEBUG("CT-ALL approved both due to host source port conflict resolution.\n");
} else if (CALI_F_FROM_HOST) {
 if (ctx->state->flags & CALI_ST_CT_NP_LOOP) {
  /* we do not run policy and it should behave like TO_HOST */
  src_to_dst->approved = 1;
  CALI_DEBUG("CT-ALL approved source side - from HEP tun allow_return=%d\n",
    ct_ctx->allow_return);
 } else {
  /* dst is to the EP, policy approved this side */
  dst_to_src->approved = 1;
  CALI_DEBUG("CT-ALL approved dest side - to EP\n");
 }
}

err = cali_ct_update_elem(k, &ct_value, BPF_NOEXIST);

if (CALI_F_HEP && err == -17 /* EEXIST */) {
 int i;

 CALI_DEBUG("Source collision for " IP_FMT ":%d\n", debug_ip(ct_ctx->src), sport);

 ct_value.orig_sport = sport;

 bool src_lt_dst = ip_lt(&ct_ctx->src, &ct_ctx->dst);

 for (i = 0; i < PSNAT_RETRIES; i++) {
  sport
= psnat_get_port(ctx);
  CALI_DEBUG("New sport %d\n", sport);

  if (ip_equal(ct_ctx->src, ct_ctx->dst)) {
   src_lt_dst = sport < dport;
  }

  fill_ct_key(k, src_lt_dst, ct_ctx->proto, &ct_ctx->src, &ct_ctx->dst, sport, dport);

  if (!(err = cali_ct_update_elem(k, &ct_value, BPF_NOEXIST))) {
   ct_ctx->sport = sport;
   break;
  }
 }
```

```
 if (i == PSNAT_RETRIES) {
  CALI_INFO("Source collision unresolved " IP_FMT ":%d\n",
    debug_ip(ct_ctx->src), ct_value.orig_sport);
  err = -17; /* EEXIST */
 }
}

out:
 CALI_VERB("CT-ALL Create result: %d.\n", err);
 return err;
}

static CALI_BPF_INLINE int calico_ct_create_nat_fwd(struct cali_tc_ctx *ctx,
        struct ct_create_ctx *ct_ctx,
        struct calico_ct_key *rk)
{
 ipv46_addr_t ip_src = ct_ctx->orig_src;
 ipv46_addr_t ip_dst = ct_ctx->orig_dst;
 __u16 sport = ct_ctx->orig_sport;
 __u16 dport = ct_ctx->orig_dport;

 if (CALI_F_TO_HEP && !CALI_F_NAT_IF && sport != ct_ctx->sport &&
  !(ctx->skb->mark & (CALI_SKB_MARK_FROM_NAT_IFACE_OUT
| CALI_SKB_MARK_SEEN))) {
  /* This entry is being created because we have a source port
   * conflict on a connection from host. We did psnat so we mark
   * such an entry with a 0 sport.
   */
  sport = 0;
  CALI_DEBUG("FWD for psnat host conflict\n");
 }

 __u64 now = bpf_ktime_get_ns();

 CALI_DEBUG("CT-%d Creating FWD entry at %llu.\n", ct_ctx->proto, now);
 CALI_DEBUG("FWD " IP_FMT " -> " IP_FMT "\n", debug_ip(ip_src), debug_ip(ip_dst));
 struct calico_ct_value ct_value = {
  .type = CALI_CT_TYPE_NAT_FWD,
  .last_seen = now,
  .created = now,
 };

 ct_value.nat_rev_key = *rk;

 /* We do not need rk anymore, we can reuse it for the new key.
  *
  * N.B. calico_ct_create_nat_fwd() is called _after_ calico_ct_v4_create_tracking()
  * which also uses the rk!
```

```
 */
 struct calico_ct_key *k = rk;
 bool srcLTDest = src_lt_dest(&ip_src, &ip_dst, sport, dport);
 fill_ct_key(k, srcLTDest, ct_ctx->proto, &ip_src, &ip_dst, sport, dport);

 if (ct_ctx->orig_sport != ct_ctx->sport)
 {
  ct_value.nat_sport = ct_ctx->sport;
 }
 int err = cali_ct_update_elem(k, &ct_value, 0);
 CALI_VERB("CT-%d Create result: %d.\n", ctx->state->ip_proto, err);
 return err;
}

#ifndef IPVER6
/* skb_icmp_err_unpack tries to unpack the inner IP and TCP/UDP header from an ICMP error message.
* It updates the ct_ctx with the protocol/src/dst/ports of the inner packet.  If the unpack fails
* (due to packet too short, for example), it returns false and sets the RC in the cali_tc_ctx to
* TC_ACT_SHOT.
*/
static CALI_BPF_INLINE bool skb_icmp_err_unpack(struct cali_tc_ctx *ctx, struct ct_lookup_ctx *ct_ctx)
{
 /* ICMP packet is an error, its payload should contain the full IP header and
  * at least the first 8 bytes of the next header. */

 int inner_ip_size;

 if (ctx->ipheader_len == 20) {
  if (skb_refresh_validate_ptrs(ctx, ICMP_SIZE + sizeof(struct iphdr) + 8)) {
   deny_reason(ctx, CALI_REASON_SHORT);
   ctx->fwd.res = TC_ACT_SHOT;
   CALI_DEBUG("ICMP v4 reply: too short
 getting hdr\n");
   return false;
  }

  struct iphdr *ip_inner;
  ip_inner = (struct iphdr *)(ctx->data_start + skb_iphdr_offset(ctx) + IP_SIZE + ICMP_SIZE);
  CALI_DEBUG("CT-ICMP: proto %d\n", ip_inner->protocol);

  ct_ctx->proto = ip_inner->protocol;
  ct_ctx->src = ip_inner->saddr;
  ct_ctx->dst = ip_inner->daddr;

  if (ip_inner->ihl == 5) {
   switch (ip_inner->protocol) {
   case IPPROTO_TCP:
    {
```

```
    struct tcphdr *tcp = (struct tcphdr *)(ip_inner + 1);
    ct_ctx->sport = bpf_ntohs(tcp->source);
    ct_ctx->dport = bpf_ntohs(tcp->dest);
   }
   break;
  case IPPROTO_UDP:
   {
    struct udphdr *udp = (struct udphdr *)(ip_inner + 1);
    ct_ctx->sport = bpf_ntohs(udp->source);
    ct_ctx->dport = bpf_ntohs(udp->dest);
   }
   break;
  };

  return true;
 } else {
  inner_ip_size = ip_inner->ihl * 4;
  /* fall through to obtaining l4 using bpf_skb_load_bytes */
 }
} else {
 __u8 buf[IP_SIZE];
 if (bpf_skb_load_bytes(ctx->skb, skb_l4hdr_offset(ctx) + ICMP_SIZE,
buf, IP_SIZE)) {
  CALI_DEBUG("ICMP v4 reply: too short getting ip hdr w/ options\n");
  return false;
 }
 ct_ctx->proto = ((struct iphdr*)buf)->protocol;
 ct_ctx->src = ((struct iphdr*)buf)->saddr;
 ct_ctx->dst = ((struct iphdr*)buf)->daddr;
 inner_ip_size = ((struct iphdr*)buf)->ihl * 4;
}

__u8 buf[8];

if (bpf_skb_load_bytes(ctx->skb, skb_l4hdr_offset(ctx) + ICMP_SIZE + inner_ip_size, buf, 8)) {
 CALI_DEBUG("ICMP v4 reply: too short getting l4 hdr w/ options\n");
 return false;
}

switch (ct_ctx->proto) {
case IPPROTO_TCP:
 ct_ctx->sport = bpf_ntohs(((struct tcphdr *)buf)->source);
 ct_ctx->dport = bpf_ntohs(((struct tcphdr *)buf)->dest);
 break;
case IPPROTO_UDP:
 ct_ctx->sport = bpf_ntohs(((struct udphdr *)buf)->source);
 ct_ctx->dport = bpf_ntohs(((struct udphdr *)buf)->dest);
 break;
```

```
 };

 return true;
}

#else /* IPVER6 */

static CALI_BPF_INLINE bool skb_icmp6_err_unpack(struct cali_tc_ctx *ctx, struct ct_lookup_ctx *ct_ctx)
{
 __u8 buf[IP_SIZE];
 CALI_DEBUG("reading
 inner ipv6 at %d\n", skb_l4hdr_offset(ctx) + ICMP_SIZE);
 if (bpf_skb_load_bytes(ctx->skb, skb_l4hdr_offset(ctx) + ICMP_SIZE, buf, IP_SIZE)) {
  CALI_DEBUG("ICMP v6 reply: too short getting ip hdr w/ options\n");
  return false;
 }

 ipv6hdr_ip_to_ipv6_addr_t(&ct_ctx->src, &((struct ipv6hdr*)buf)->saddr);
 ipv6hdr_ip_to_ipv6_addr_t(&ct_ctx->dst, &((struct ipv6hdr*)buf)->daddr);

 int hdr = ((struct ipv6hdr*)buf)->nexthdr;
 int ipoff = skb_l4hdr_offset(ctx) + ICMP_SIZE;
 int len = IP_SIZE;

 CALI_DEBUG("ipv6 next hdr: %d\n", hdr);

 switch (hdr) {
 case IPPROTO_TCP:
 case IPPROTO_UDP:
  ct_ctx->proto = hdr;
  goto get_ports;
 case NEXTHDR_NONE:
  return false;
 }

 int i;

 for (i = 0; i < 8; i++) {
  struct ipv6_opt_hdr opt;

  CALI_DEBUG("loading extension at offset %d\n", ipoff + len);
  if (bpf_skb_load_bytes(ctx->skb, ipoff + len, &opt, sizeof(opt))) {
   CALI_DEBUG("Too short\n");
   return false;
  }

  CALI_DEBUG("ext nexthdr %d hdrlen %d\n", opt.nexthdr, opt.hdrlen);
```

```
 switch(hdr)
 {
  case NEXTHDR_FRAGMENT:
   len += 16;
   break;
  case NEXTHDR_HOP:
  case NEXTHDR_ROUTING:
  case NEXTHDR_DEST:
  case NEXTHDR_GRE:
  case NEXTHDR_ESP:
  case NEXTHDR_AUTH:
  case NEXTHDR_MOBILITY:
   len += (opt.hdrlen + 1) * 8;
   break;
  }

  switch(opt.nexthdr) {
   case IPPROTO_TCP:
   case IPPROTO_UDP:
    ct_ctx->proto = opt.nexthdr;
    goto get_ports;
   case NEXTHDR_NONE:
    return false;
  }


 }

get_ports:

 if (bpf_skb_load_bytes(ctx->skb, ipoff + len, buf, 8)) {
  CALI_DEBUG("ICMP v6 reply: too short getting l4 hdr w/ options\n");
  return false;
 }

 switch (ct_ctx->proto) {
 case IPPROTO_TCP:
  ct_ctx->sport = bpf_ntohs(((struct tcphdr *)buf)->source);
  ct_ctx->dport = bpf_ntohs(((struct tcphdr *)buf)->dest);
  break;
 case IPPROTO_UDP:
  ct_ctx->sport = bpf_ntohs(((struct udphdr *)buf)->source);
  ct_ctx->dport = bpf_ntohs(((struct udphdr *)buf)->dest);
  break;
 };

 return true;
}
```

```
#endif /* IPVER6 */

#define CALI_CT_LOG(level, fmt, ...)
 \
 CALI_LOG_IF_FLAG(level, CALI_COMPILE_FLAGS, "CT: "fmt, ## __VA_ARGS__)
#define CALI_CT_DEBUG(fmt, ...) \
 CALI_CT_LOG(CALI_LOG_LEVEL_DEBUG, fmt, ## __VA_ARGS__)
#define CALI_CT_VERB(fmt, ...) \
 CALI_CT_LOG(CALI_LOG_LEVEL_VERB, fmt, ## __VA_ARGS__)

#define seqno_add(seq, add) (bpf_htonl((bpf_ntohl(seq) + add)))

static CALI_BPF_INLINE void ct_tcp_entry_update(struct cali_tc_ctx *ctx,
     struct tcphdr *tcp_header,
     struct calico_ct_leg *src_to_dst,
     struct calico_ct_leg *dst_to_src)
{
 if (tcp_header->rst) {
  CALI_CT_DEBUG("RST seen, marking CT entry.\n");
  // TODO: We should only take account of RST packets that are in
  // the right window.
  // TODO if we trust the RST, could just drop the CT entries.
  src_to_dst->rst_seen = 1;
 }
 if (tcp_header->fin) {
  CALI_CT_VERB("FIN seen, marking CT entry.\n");
  src_to_dst->fin_seen = 1;
 }

 if (tcp_header->syn && tcp_header->ack) {
  if (dst_to_src->syn_seen && seqno_add(dst_to_src->seqno, 1) == tcp_header->ack_seq)
  {
   CALI_CT_VERB("SYN+ACK seen, marking CT entry.\n");
   src_to_dst->syn_seen = 1;
   src_to_dst->ack_seen = 1;
   src_to_dst->seqno = tcp_header->seq;
  } else {
   CALI_CT_VERB("SYN+ACK seen but packet's ACK (%u) "
     "doesn't match other side's SYN (%u).\n",
     bpf_ntohl(tcp_header->ack_seq),
     bpf_ntohl(dst_to_src->seqno));
   /* XXX Have to let this through so source can reset? */
  }
 } else if (tcp_header->ack && !src_to_dst->ack_seen && src_to_dst->syn_seen) {
  if (dst_to_src->syn_seen && seqno_add(dst_to_src->seqno, 1) == tcp_header->ack_seq) {
   CALI_CT_VERB("ACK seen, marking CT entry.\n");
   src_to_dst->ack_seen = 1;
```

```
  } else {
   CALI_CT_VERB("ACK seen but packet's ACK (%u) doesn't "
     "match other side's SYN (%u).\n",
     bpf_ntohl(tcp_header->ack_seq),
     bpf_ntohl(dst_to_src->seqno));
   /* XXX Have to let this through so source can reset? */
  }
 } else {
  /* Normal packet, check that the handshake is complete. */
  if (!dst_to_src->ack_seen) {
   CALI_CT_VERB("Non-flagged
 packet but other side has never ACKed.\n");
   /* XXX Have to let this through so source can reset? */
  } else {
   CALI_CT_VERB("Non-flagged packet and other side has ACKed.\n");
  }
 }
}

static CALI_BPF_INLINE bool tcp_recycled(bool syn, struct calico_ct_value *v)
{
 struct calico_ct_leg *a, *b;

 a = &v->a_to_b;
 b = &v->b_to_a;

 /* When we see a SYN for a connection that has seen FIN or RST in both direction,
  * a new connection with the same tuple is trying to recycle this entry.
  */
 return syn && (a->fin_seen || a->rst_seen) && (b->fin_seen || b->rst_seen);
}

static CALI_BPF_INLINE struct calico_ct_result calico_ct_lookup(struct cali_tc_ctx *ctx)
{
 struct ct_lookup_ctx ct_lookup_ctx = {
  .proto = STATE->ip_proto,
  .src = STATE->ip_src,
  .sport = STATE->sport,
  .dst = STATE->ip_dst,
  .dport = STATE->dport,
 };
 struct ct_lookup_ctx *ct_ctx = &ct_lookup_ctx;

 switch (STATE->ip_proto) {
 case IPPROTO_TCP:
  if (skb_refresh_validate_ptrs(ctx, TCP_SIZE))
  {
   deny_reason(ctx, CALI_REASON_SHORT);
```

```
  CALI_DEBUG("Too short\n");
  bpf_exit(TC_ACT_SHOT);
 }
 ct_lookup_ctx.tcp = tcp_hdr(ctx);
 break;
}

__u8 proto_orig = STATE->ip_proto;
struct tcphdr *tcp_header = STATE->ip_proto == IPPROTO_TCP ? tcp_hdr(ctx) : NULL;
bool related = false;

CALI_CT_DEBUG("lookup from " IP_FMT ":%d\n", debug_ip(STATE->ip_src), STATE->sport);
CALI_CT_DEBUG("lookup to   " IP_FMT ":%d\n", debug_ip(STATE->ip_dst), STATE->dport);
if (tcp_header) {
 CALI_CT_VERB("packet seq = %u\n", bpf_ntohl(tcp_header->seq));
 CALI_CT_VERB("packet ack_seq = %u\n", bpf_ntohl(tcp_header->ack_seq));
 CALI_CT_VERB("packet syn = %d\n", tcp_header->syn);
 CALI_CT_VERB("packet ack = %d\n", tcp_header->ack);
 CALI_CT_VERB("packet fin = %d\n", tcp_header->fin);
 CALI_CT_VERB("packet rst = %d\n", tcp_header->rst);
}

struct calico_ct_result result = {
 .rc = CALI_CT_NEW, /* it is zero, but make it explicit in the code */
 .ifindex_created = CT_INVALID_IFINDEX,
};

struct
calico_ct_key k;
bool syn = tcp_header && tcp_header->syn && !tcp_header->ack;

if (ct_ctx->proto == IPPROTO_ICMP_46) {
 /* There are no ports in ICMP and the fields in state are overloaded
  * for other use like type and code.
  */
 ct_lookup_ctx.dport = 0;

#ifdef IPVER6
  if (icmp_type_is_err(icmp_hdr(ctx)->icmp6_type)) {
#else
  if (icmp_type_is_err(icmp_hdr(ctx)->type)) {
#endif
   /* ICMP error packets are a response to a failed UDP/TCP/etc
    * packet.  Try to extract the details of the inner packet.
    */
#ifdef IPVER6
   if (!skb_icmp6_err_unpack(ctx, ct_ctx)) {
#else
```

```
  if (!skb_icmp_err_unpack(ctx, ct_ctx)) {
#endif
    CALI_CT_DEBUG("Failed to parse ICMP error packet.\n");
    goto out_invalid;
  }

  /* skb_icmp_err_unpack updates the ct_ctx with the details of the inner packet;
   * look for a conntrack entry for the inner packet...
   */
  CALI_CT_DEBUG("related lookup from " IP_FMT ":%d\n", debug_ip(ct_ctx->src), ct_ctx->sport);
  CALI_CT_DEBUG("related
 lookup to   " IP_FMT ":%d\n", debug_ip(ct_ctx->dst), ct_ctx->dport);
  related = true;
  tcp_header = STATE->ip_proto == IPPROTO_TCP ? tcp_hdr(ctx) : NULL;


  /* We failed to look up the original flow, but it is an ICMP error and we
   * _do_ have a CT entry for the packet inside the error.  ct_ctx has been
   * updated to describe the inner packet.
   */

  ctx->state->sport = ct_ctx->sport;
  ctx->state->dport = ct_ctx->dport;
 }
}

bool srcLTDest = src_lt_dest(&ct_ctx->src, &ct_ctx->dst, ct_ctx->sport, ct_ctx->dport);
fill_ct_key(&k, srcLTDest, ct_ctx->proto, &ct_ctx->src, &ct_ctx->dst, ct_ctx->sport, ct_ctx->dport);

struct calico_ct_value *v = cali_ct_lookup_elem(&k);
if (!v) {
 if (syn) {
  // SYN packet (new flow); send it to policy.
  CALI_CT_DEBUG("Miss for TCP SYN, NEW flow.\n");
  goto out_lookup_fail;
 }
 if (CALI_F_FROM_HOST && proto_orig == IPPROTO_TCP) {
  // Mid-flow TCP packet with no conntrack entry leaving the host namespace.
  CALI_DEBUG("BPF
 CT Miss for mid-flow TCP\n");
  if ((ctx->skb->mark & CALI_SKB_MARK_CT_ESTABLISHED_MASK) ==
CALI_SKB_MARK_CT_ESTABLISHED) {
   // Linux Conntrack has marked the packet as part of an established flow.
   // TODO-HEP Create a tracking entry for uplifted flow so that we handle the reverse traffic more efficiently.
    CALI_DEBUG("BPF CT Miss but have Linux CT entry: established\n");
    result.rc = CALI_CT_ESTABLISHED;
    return result;
  }
```

```
  CALI_DEBUG("BPF CT Miss but Linux CT entry not signalled\n");
  result.rc = CALI_CT_MID_FLOW_MISS;
  return result;
 }
 if (CALI_F_TO_HOST && proto_orig == IPPROTO_TCP) {
  // Miss for a mid-flow TCP packet towards the host.  This may be part of a
  // connection that predates the BPF program so we need to let it fall through
  // to iptables.
  CALI_DEBUG("BPF CT Miss for mid-flow TCP\n");
  result.rc = CALI_CT_MID_FLOW_MISS;
  return result;
 }
 CALI_CT_DEBUG("Miss.\n");
 if (related) {
  goto out_invalid;
 } else
{
  goto out_lookup_fail;
 }
}

__u64 now = bpf_ktime_get_ns();
v->last_seen = now;

result.flags = ct_value_get_flags(v);

// Return the if_index where the CT state was created.
if (v->a_to_b.opener) {
 result.ifindex_created = v->a_to_b.ifindex;
} else if (v->b_to_a.opener) {
 result.ifindex_created = v->b_to_a.ifindex;
}

struct calico_ct_leg *src_to_dst, *dst_to_src;

struct calico_ct_value *tracking_v;
switch (v->type) {
case CALI_CT_TYPE_NAT_FWD:
 // This is a forward NAT entry; since we do the bookkeeping on the
 // reverse entry, we need to do a second lookup.
 CALI_CT_DEBUG("Hit! NAT FWD entry, doing secondary lookup.\n");
 tracking_v = cali_ct_lookup_elem(&v->nat_rev_key);
 if (!tracking_v) {
  CALI_CT_DEBUG("Miss when looking for secondary entry.\n");
  goto out_lookup_fail;
 }
 if (tcp_recycled(syn, tracking_v)) {
  CALI_CT_DEBUG("TCP SYN recycles entry, NEW flow.\n");
```

```
  cali_ct_delete_elem(&k);
  cali_ct_delete_elem(&v->nat_rev_key);
  goto
out_lookup_fail;
 }

 // Record timestamp.
 tracking_v->last_seen = now;

 if (!(ct_value_get_flags(tracking_v) & CALI_CT_FLAG_BA)) {
  CALI_VERB("CT-ALL FWD-REV src_to_dst A->B\n");
  src_to_dst = &tracking_v->a_to_b;
  dst_to_src = &tracking_v->b_to_a;
  result.nat_ip = v->nat_rev_key.addr_b;
  result.nat_port = v->nat_rev_key.port_b;
  result.nat_sip = v->nat_rev_key.addr_a;
  result.nat_sport = v->nat_rev_key.port_a;
 } else {
  CALI_VERB("CT-ALL FWD-REV src_to_dst B->A\n");
  src_to_dst = &tracking_v->b_to_a;
  dst_to_src = &tracking_v->a_to_b;
  result.nat_ip = v->nat_rev_key.addr_a;
  result.nat_port = v->nat_rev_key.port_a;
  result.nat_sip = v->nat_rev_key.addr_b;
  result.nat_sport = v->nat_rev_key.port_b;
 }

 if (v->nat_sport) {
  /* This would override the host SNAT, but those two features are
   * mutually exclusive. One happens for nodeport only (psnat) the
   * other for host -> service only (full SNAT)
   */
  result.nat_sport = v->nat_sport;
 }

 result.tun_ip
= tracking_v->tun_ip;
 CALI_CT_DEBUG("fwd tun_ip:" IP_FMT "\n", debug_ip(tracking_v->tun_ip));
 // flags are in the tracking entry
 result.flags = ct_value_get_flags(tracking_v);
 CALI_CT_DEBUG("result.flags 0x%x\n", result.flags);

 if (ct_ctx->proto == IPPROTO_ICMP_46) {
  result.rc = CALI_CT_ESTABLISHED_DNAT;
  result.nat_ip = tracking_v->orig_ip;
 } else if (CALI_F_TO_HOST ||
   (CALI_F_TO_HEP && result.flags & (CALI_CT_FLAG_VIA_NAT_IF |
        CALI_CT_FLAG_NP_LOOP |
```

```
        CALI_CT_FLAG_NP_REMOTE))) {
  // Since we found a forward NAT entry, we know that it's the destination
  // that needs to be NATted.
  result.rc = CALI_CT_ESTABLISHED_DNAT;
 } else {
  result.rc = CALI_CT_ESTABLISHED;
 }

 /* If we are on a HEP - where encap/decap can happen - and if the packet
  * arrived through a tunnel, check if the src IP of the packet is expected.
  */
 if (CALI_F_FROM_HEP && !ip_void(ctx->state->tun_ip) && !ip_void(result.tun_ip) &&
   !ip_equal(result.tun_ip,
ctx->state->tun_ip)) {
  CALI_CT_DEBUG("tunnel src changed from " IP_FMT " to " IP_FMT "\n",
    debug_ip(result.tun_ip), debug_ip(ctx->state->tun_ip));
  ct_result_set_flag(result.rc, CT_RES_TUN_SRC_CHANGED);
 }

 if (tracking_v->a_to_b.approved && tracking_v->b_to_a.approved) {
  ct_result_set_flag(result.rc, CT_RES_CONFIRMED);
 }

 break;
case CALI_CT_TYPE_NAT_REV:
 // N.B. we do not check for tcp_recycled because this cannot be the first
 // SYN that is opening a new connection. This must be returning traffic.
 if (srcLTDest) {
  CALI_VERB("CT-ALL REV src_to_dst A->B\n");
  src_to_dst = &v->a_to_b;
  dst_to_src = &v->b_to_a;
 } else {
  CALI_VERB("CT-ALL REV src_to_dst B->A\n");
  src_to_dst = &v->b_to_a;
  dst_to_src = &v->a_to_b;
 }

 result.tun_ip = v->tun_ip;
 CALI_CT_DEBUG("tun_ip:" IP_FMT "\n", debug_ip(v->tun_ip));

 result.flags = ct_value_get_flags(v);

 if (ct_ctx->proto == IPPROTO_ICMP_46 || (related && proto_orig == IPPROTO_ICMP_46))
{
  result.rc = CALI_CT_ESTABLISHED_SNAT;
  result.nat_ip = v->orig_ip;
  result.nat_port = v->orig_port;
  result.nat_sip = v->orig_sip;
```

```
 result.nat_sport = v->orig_sport;
 break;
}

/* A reverse NAT entry; this means that the conntrack entry was
 * keyed on the post-NAT IPs.  We _want_ to hit this entry where
 * we need to do SNAT, however, we also hit this for request
 * packets that traverse more than one endpoint on the same host
 * so we need to distinguish those cases.
 */
int snat;

/* Packet is heading away from the host namespace; either
 * entering a workload or leaving via a host endpoint, actually
 * reverse the NAT.
 */
snat = CALI_F_FROM_HOST;
/* if returning packet into a tunnel */
snat |= (dnat_return_should_encap() && !ip_void(v->tun_ip));
snat |= result.flags & CALI_CT_FLAG_VIA_NAT_IF;
snat |= result.flags & CALI_CT_FLAG_HOST_PSNAT;
snat |= result.flags & CALI_CT_FLAG_NP_LOOP;
snat |= result.flags & CALI_CT_FLAG_NP_REMOTE;
snat
= snat && dst_to_src->opener;

if (snat) {
 CALI_CT_DEBUG("Hit! NAT REV entry at ingress to connection opener: SNAT.\n");
 result.rc = CALI_CT_ESTABLISHED_SNAT;
 result.nat_ip = v->orig_ip;
 result.nat_sip = v->orig_sip;
 result.nat_port = v->orig_port;
 result.nat_sport = v->orig_sport;
} else {
 CALI_CT_DEBUG("Hit! NAT REV entry but not connection opener: ESTABLISHED.\n");
 result.rc = CALI_CT_ESTABLISHED;
}

if (v->a_to_b.approved && v->b_to_a.approved) {
 ct_result_set_flag(result.rc, CT_RES_CONFIRMED);
}

break;

case CALI_CT_TYPE_NORMAL:
 CALI_CT_DEBUG("Hit! NORMAL entry.\n");
 if (tcp_recycled(syn, v)) {
  CALI_CT_DEBUG("TCP SYN recycles entry, NEW flow.\n");
```

```
 cali_ct_delete_elem(&k);
 goto out_lookup_fail;
}
CALI_CT_VERB("Created: %llu.\n", v->created);
if (tcp_header) {
 CALI_CT_VERB("Last seen: %llu.\n", v->last_seen);
 CALI_CT_VERB("A-to-B: seqno %u.\n", bpf_ntohl(v->a_to_b.seqno));
 CALI_CT_VERB("A-to-B: syn_seen
%d.\n", v->a_to_b.syn_seen);
 CALI_CT_VERB("A-to-B: ack_seen %d.\n", v->a_to_b.ack_seen);
 CALI_CT_VERB("A-to-B: fin_seen %d.\n", v->a_to_b.fin_seen);
 CALI_CT_VERB("A-to-B: rst_seen %d.\n", v->a_to_b.rst_seen);
}
CALI_CT_VERB("A: approved %d.\n", v->a_to_b.approved);
if (tcp_header) {
 CALI_CT_VERB("B-to-A: seqno %u.\n", bpf_ntohl(v->b_to_a.seqno));
 CALI_CT_VERB("B-to-A: syn_seen %d.\n", v->b_to_a.syn_seen);
 CALI_CT_VERB("B-to-A: ack_seen %d.\n", v->b_to_a.ack_seen);
 CALI_CT_VERB("B-to-A: fin_seen %d.\n", v->b_to_a.fin_seen);
 CALI_CT_VERB("B-to-A: rst_seen %d.\n", v->b_to_a.rst_seen);
}
CALI_CT_VERB("B: approved %d.\n", v->b_to_a.approved);

if (v->a_to_b.approved && v->b_to_a.approved) {
 result.rc = CALI_CT_ESTABLISHED_BYPASS;
 ct_result_set_flag(result.rc, CT_RES_CONFIRMED);
} else {
 result.rc = CALI_CT_ESTABLISHED;
}

if (srcLTDest) {
 src_to_dst = &v->a_to_b;
 dst_to_src = &v->b_to_a;
} else {
 src_to_dst = &v->b_to_a;
 dst_to_src
= &v->a_to_b;
}

break;
default:
CALI_CT_DEBUG("Hit! UNKNOWN entry type.\n");
goto out_lookup_fail;
}

int ret_from_tun = CALI_F_FROM_HEP &&
  !ip_void(ctx->state->tun_ip) &&
  ct_result_rc(result.rc) == CALI_CT_ESTABLISHED_DNAT &&
```

```
   src_to_dst->approved &&
   result.flags & CALI_CT_FLAG_NP_FWD;

if (related) {
 if (proto_orig == IPPROTO_ICMP_46) {
  /* flip src/dst as ICMP related carries the original ip/l4 headers in
   * opposite direction - it is a reaction on the original packet.
   */
  struct calico_ct_leg *tmp;

  tmp = src_to_dst;
  src_to_dst = dst_to_src;
  dst_to_src = tmp;
 }
}

if (ret_from_tun) {
 CALI_DEBUG("Packet returned from tunnel " IP_FMT "\n", debug_ip(ctx->state->tun_ip));
} else if (CALI_F_TO_HOST || (skb_from_host(ctx->skb) && result.flags & CALI_CT_FLAG_HOST_PSNAT)) {
 /* Source of the packet is the endpoint, so check the src approval flag. */
 if (CALI_F_LO || src_to_dst->approved || (related && dst_to_src->approved))
{
  CALI_CT_VERB("Packet approved by this workload's policy.\n");
 } else {
  /* Only approved by the other side (so far)?  Unlike
   * TCP we have no way to distinguish packets that open a
   * new connection so we have to return NEW here in order
   * to invoke policy.
   */
  CALI_CT_DEBUG("Packet not allowed by ingress/egress approval flags (TH).\n");
  result.rc = tcp_header ? CALI_CT_INVALID : CALI_CT_NEW;
 }
} else if (CALI_F_FROM_HOST) {
 /* Dest of the packet is the endpoint, so check the dest approval flag. */
 if (CALI_F_LO || dst_to_src->approved || (related && src_to_dst->approved)) {
  // Packet was approved by the policy attached to this endpoint.
  CALI_CT_VERB("Packet approved by this workload's policy.\n");
 } else {
  /* Only approved by the other side (so far)?  Unlike
   * TCP we have no way to distinguish packets that open a
   * new connection so we have to return NEW here in order
   * to invoke policy.
   */
  CALI_CT_DEBUG("Packet not
allowed by ingress/egress approval flags (FH).\n");
  result.rc = (tcp_header && !syn) ? CALI_CT_INVALID : CALI_CT_NEW;
 }
}
```

```
if (tcp_header && !related) {
 if (ret_from_tun) {
  /* we returned from tunnel, we are after SNAT, unlike
   * with NAT on workload, we hit FWD entry in both
   * directions, so we need to swap the direction.
   */
  struct calico_ct_leg *tmp = dst_to_src;

  dst_to_src = src_to_dst;
  src_to_dst = tmp;
 }
 ct_tcp_entry_update(ctx, tcp_header, src_to_dst, dst_to_src);
}

__u32 ifindex = skb_ingress_ifindex(ctx->skb);

if (src_to_dst->ifindex != ifindex) {
 // Conntrack entry records a different ingress interface than the one the
 // packet arrived on (or it has no record yet).
 if (CALI_F_TO_HOST) {
  bool same_if = false;
  // Packet is towards the host so this program is the first to see the packet.
  if (src_to_dst->ifindex == CT_INVALID_IFINDEX) {
   // Conntrack entry has no record of the ingress interface, this should
   // be
a response packet but we can't be 100% sure.
   CALI_CT_DEBUG("First response packet? ifindex=%d\n", ifindex);
   /* Check if the return packet follow the same path as the request. */
   same_if = dst_to_src->ifindex == ifindex;
  } else {
   // The interface has changed; either a change to routing or someone's doing
   // something nasty.
   CALI_CT_DEBUG("CT RPF failed ifindex %d != %d\n",
     src_to_dst->ifindex, ifindex);
  }

  bool rpf_passed = false;
  if (same_if || ret_from_tun || CALI_F_NAT_IF || CALI_F_LO) {
   /* Do not worry about packets returning from the same direction as
    * the outgoing packets.
    *
    * Do not check if packets are returning from the NP vxlan tunnel.
    */
   rpf_passed = true;
  } else if (CALI_F_HEP) {
   rpf_passed = hep_rpf_check(ctx);
  } else {
```

```
   rpf_passed = wep_rpf_check(ctx, cali_rt_lookup(&ctx->state->ip_src));
  }
  if (!rpf_passed) {
   ct_result_set_flag(result.rc, CT_RES_RPF_FAILED);
   src_to_dst->ifindex
= CT_INVALID_IFINDEX;
   CALI_CT_DEBUG("CT RPF failed invalidating ifindex");
  } else {
   CALI_CT_DEBUG("Updating ifindex from %d to %d\n",
     src_to_dst->ifindex, ifindex);
   src_to_dst->ifindex = ifindex;
  }
 } else if (src_to_dst->ifindex != CT_INVALID_IFINDEX) {
  /* if the devices do not match, we got here without bypassing the
   * host IP stack and RPF check allowed it, so update our records.
   */
  CALI_CT_DEBUG("Updating ifindex from %d to %d\n",
    src_to_dst->ifindex, ifindex);
  src_to_dst->ifindex = ifindex;
 }
}

if (CALI_F_TO_HOST) {
 /* Fill in the ifindex we recorded in the opposite direction. The caller
  * may use it to directly forward the packet to the same interface where
  * packets in the opposite direction are coming from.
  */
 result.ifindex_fwd = dst_to_src->ifindex;
}

if (syn) {
 CALI_CT_DEBUG("packet is SYN\n");
 ct_result_set_flag(result.rc, CT_RES_SYN);
}


CALI_CT_DEBUG("result: 0x%x\n", result.rc);

if (related) {
 ct_result_set_flag(result.rc,
CT_RES_RELATED);
 CALI_CT_DEBUG("result: related\n");
}

return result;

out_lookup_fail:
 result.rc = CALI_CT_NEW;
```

```
 CALI_CT_DEBUG("result: NEW.\n");
 return result;
out_invalid:
 result.rc = CALI_CT_INVALID;
 CALI_CT_DEBUG("result: INVALID.\n");
 return result;
}

/* creates connection tracking for tracked protocols */
static CALI_BPF_INLINE int conntrack_create(struct cali_tc_ctx *ctx, struct ct_create_ctx *ct_ctx)
{
 struct calico_ct_key *k = &ctx->scratch->ct_key;
 int err;

 if (ct_ctx->proto == IPPROTO_ICMP_46) {
  ct_ctx->dport = 0;
 }

 if (ctx->state->flags & CALI_ST_SUPPRESS_CT_STATE) {
  // CT state creation is suppressed.
  return 0;
 }

 err = calico_ct_v4_create_tracking(ctx, ct_ctx, k);
 if (err) {
  CALI_DEBUG("calico_ct_v4_create_tracking err %d\n", err);
  return err;
 }

 if (ct_ctx->type == CALI_CT_TYPE_NAT_REV) {
  err = calico_ct_create_nat_fwd(ctx, ct_ctx, k);
  if (err) {
   /* XXX we should clean up the tracking entry */
  }
 }

 return
 err;
}

#endif /* __CALI_CONNTRACK_H__ */
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
#ifndef _UAPI__LINUX_BPF_COMMON_H__
#define _UAPI__LINUX_BPF_COMMON_H__

/* Instruction classes */
#define BPF_CLASS(code) ((code) & 0x07)
#define  BPF_LD  0x00
```

```
#define  BPF_LDX  0x01
#define  BPF_ST  0x02
#define  BPF_STX  0x03
#define  BPF_ALU  0x04
#define  BPF_JMP  0x05
#define  BPF_RET  0x06
#define  BPF_MISC        0x07

/* ld/ldx fields */
#define BPF_SIZE(code)  ((code) & 0x18)
#define  BPF_W  0x00 /* 32-bit */
#define  BPF_H  0x08 /* 16-bit */
#define  BPF_B  0x10 /*  8-bit */
/* eBPF  BPF_DW  0x18    64-bit */
#define BPF_MODE(code)  ((code) & 0xe0)
#define  BPF_IMM  0x00
#define  BPF_ABS  0x20
#define  BPF_IND  0x40
#define  BPF_MEM  0x60
#define  BPF_LEN  0x80
#define  BPF_MSH  0xa0

/* alu/jmp fields */
#define BPF_OP(code)    ((code) & 0xf0)
#define  BPF_ADD  0x00
#define  BPF_SUB  0x10
#define  BPF_MUL  0x20
#define  BPF_DIV  0x30
#define  BPF_OR  0x40
#define  BPF_AND  0x50
#define  BPF_LSH  0x60
#define  BPF_RSH  0x70
#define  BPF_NEG  0x80
#define  BPF_MOD  0x90
#define  BPF_XOR  0xa0

#define  BPF_JA  0x00
#define  BPF_JEQ  0x10
#define  BPF_JGT  0x20
#define  BPF_JGE  0x30
#define  BPF_JSET
        0x40
#define BPF_SRC(code)   ((code) & 0x08)
#define  BPF_K  0x00
#define  BPF_X  0x08

#ifndef BPF_MAXINSNS
#define BPF_MAXINSNS 4096
```

```
#endif

#endif /* _UAPI__LINUX_BPF_COMMON_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
/* Copyright (c) 2018 Facebook */
/*! \file */

#ifndef __LIBBPF_BTF_H
#define __LIBBPF_BTF_H

#include <stdarg.h>
#include <stdbool.h>
#include <linux/btf.h>
#include <linux/types.h>

#include "libbpf_common.h"

#ifdef __cplusplus
extern "C" {
#endif

#define BTF_ELF_SEC ".BTF"
#define BTF_EXT_ELF_SEC ".BTF.ext"
#define MAPS_ELF_SEC ".maps"

struct btf;
struct btf_ext;
struct btf_type;

struct bpf_object;

enum btf_endianness {
 BTF_LITTLE_ENDIAN = 0,
 BTF_BIG_ENDIAN = 1,
};

/**
* @brief **btf__free()** frees all data of a BTF object
* @param btf BTF object to free
*/
LIBBPF_API void btf__free(struct btf *btf);

/**
* @brief **btf__new()** creates a new instance of a BTF object from the raw
* bytes of an ELF's BTF section
* @param data raw bytes
* @param size number of bytes passed in `data`
* @return new BTF object instance which has to be eventually freed with
```

```
* **btf__free()**
*
* On error, error-code-encoded-as-pointer
 is returned, not a NULL. To extract
* error code from such a pointer `libbpf_get_error()` should be used. If
* `libbpf_set_strict_mode(LIBBPF_STRICT_CLEAN_PTRS)` is enabled, NULL is
* returned on error instead. In both cases thread-local `errno` variable is
* always set to error code as well.
*/
LIBBPF_API struct btf *btf__new(const void *data, __u32 size);

/**
* @brief **btf__new_split()** create a new instance of a BTF object from the
* provided raw data bytes. It takes another BTF instance, **base_btf**, which
* serves as a base BTF, which is extended by types in a newly created BTF
* instance
* @param data raw bytes
* @param size length of raw bytes
* @param base_btf the base BTF object
* @return new BTF object instance which has to be eventually freed with
* **btf__free()**
*
* If *base_btf* is NULL, `btf__new_split()` is equivalent to `btf__new()` and
* creates non-split BTF.
*
* On error, error-code-encoded-as-pointer is returned, not a NULL. To extract
 * error code from such a pointer `libbpf_get_error()` should be used. If
* `libbpf_set_strict_mode(LIBBPF_STRICT_CLEAN_PTRS)` is enabled, NULL is
* returned on error instead. In both cases thread-local `errno` variable is
* always set to error code as well.
*/
LIBBPF_API struct btf *btf__new_split(const void *data, __u32 size, struct btf *base_btf);

/**
* @brief **btf__new_empty()** creates an empty BTF object.  Use
* `btf__add_*()` to populate such BTF object.
* @return new BTF object instance which has to be eventually freed with
* **btf__free()**
*
* On error, error-code-encoded-as-pointer is returned, not a NULL. To extract
* error code from such a pointer `libbpf_get_error()` should be used. If
* `libbpf_set_strict_mode(LIBBPF_STRICT_CLEAN_PTRS)` is enabled, NULL is
* returned on error instead. In both cases thread-local `errno` variable is
* always set to error code as well.
*/
LIBBPF_API struct btf *btf__new_empty(void);

/**
```

```
* @brief **btf__new_empty_split()**
 creates an unpopulated BTF object from an
* ELF BTF section except with a base BTF on top of which split BTF should be
* based
* @return new BTF object instance which has to be eventually freed with
* **btf__free()**
*
* If *base_btf* is NULL, `btf__new_empty_split()` is equivalent to
* `btf__new_empty()` and creates non-split BTF.
*
* On error, error-code-encoded-as-pointer is returned, not a NULL. To extract
* error code from such a pointer `libbpf_get_error()` should be used. If
* `libbpf_set_strict_mode(LIBBPF_STRICT_CLEAN_PTRS)` is enabled, NULL is
* returned on error instead. In both cases thread-local `errno` variable is
* always set to error code as well.
*/
LIBBPF_API struct btf *btf__new_empty_split(struct btf *base_btf);

LIBBPF_API struct btf *btf__parse(const char *path, struct btf_ext **btf_ext);
LIBBPF_API struct btf *btf__parse_split(const char *path, struct btf *base_btf);
LIBBPF_API struct btf *btf__parse_elf(const char *path, struct btf_ext **btf_ext);
LIBBPF_API
 struct btf *btf__parse_elf_split(const char *path, struct btf *base_btf);
LIBBPF_API struct btf *btf__parse_raw(const char *path);
LIBBPF_API struct btf *btf__parse_raw_split(const char *path, struct btf *base_btf);

LIBBPF_API struct btf *btf__load_vmlinux_btf(void);
LIBBPF_API struct btf *btf__load_module_btf(const char *module_name, struct btf *vmlinux_btf);

LIBBPF_API struct btf *btf__load_from_kernel_by_id(__u32 id);
LIBBPF_API struct btf *btf__load_from_kernel_by_id_split(__u32 id, struct btf *base_btf);

LIBBPF_API int btf__load_into_kernel(struct btf *btf);
LIBBPF_API __s32 btf__find_by_name(const struct btf *btf,
      const char *type_name);
LIBBPF_API __s32 btf__find_by_name_kind(const struct btf *btf,
    const char *type_name, __u32 kind);
LIBBPF_API __u32 btf__type_cnt(const struct btf *btf);
LIBBPF_API const struct btf *btf__base_btf(const struct btf *btf);
LIBBPF_API const struct btf_type *btf__type_by_id(const struct btf *btf,
       __u32 id);
LIBBPF_API
 size_t btf__pointer_size(const struct btf *btf);
LIBBPF_API int btf__set_pointer_size(struct btf *btf, size_t ptr_sz);
LIBBPF_API enum btf_endianness btf__endianness(const struct btf *btf);
LIBBPF_API int btf__set_endianness(struct btf *btf, enum btf_endianness endian);
LIBBPF_API __s64 btf__resolve_size(const struct btf *btf, __u32 type_id);
LIBBPF_API int btf__resolve_type(const struct btf *btf, __u32 type_id);
```

```
LIBBPF_API int btf__align_of(const struct btf *btf, __u32 id);
LIBBPF_API int btf__fd(const struct btf *btf);
LIBBPF_API void btf__set_fd(struct btf *btf, int fd);
LIBBPF_API const void *btf__raw_data(const struct btf *btf, __u32 *size);
LIBBPF_API const char *btf__name_by_offset(const struct btf *btf, __u32 offset);
LIBBPF_API const char *btf__str_by_offset(const struct btf *btf, __u32 offset);

LIBBPF_API struct btf_ext *btf_ext__new(const __u8 *data, __u32 size);
LIBBPF_API void btf_ext__free(struct btf_ext *btf_ext);
LIBBPF_API const void *btf_ext__raw_data(const struct
 btf_ext *btf_ext, __u32 *size);

LIBBPF_API int btf__find_str(struct btf *btf, const char *s);
LIBBPF_API int btf__add_str(struct btf *btf, const char *s);
LIBBPF_API int btf__add_type(struct btf *btf, const struct btf *src_btf,
        const struct btf_type *src_type);
/**
* @brief **btf__add_btf()** appends all the BTF types from *src_btf* into *btf*
* @param btf BTF object which all the BTF types and strings are added to
* @param src_btf BTF object which all BTF types and referenced strings are copied from
* @return BTF type ID of the first appended BTF type, or negative error code
*
* **btf__add_btf()** can be used to simply and efficiently append the entire
* contents of one BTF object to another one. All the BTF type data is copied
* over, all referenced type IDs are adjusted by adding a necessary ID offset.
* Only strings referenced from BTF types are copied over and deduplicated, so
* if there were some unused strings in *src_btf*, those won't be copied over,
* which
 is consistent with the general string deduplication semantics of BTF
* writing APIs.
*
* If any error is encountered during this process, the contents of *btf* is
* left intact, which means that **btf__add_btf()** follows the transactional
* semantics and the operation as a whole is all-or-nothing.
*
* *src_btf* has to be non-split BTF, as of now copying types from split BTF
* is not supported and will result in -ENOTSUP error code returned.
*/
LIBBPF_API int btf__add_btf(struct btf *btf, const struct btf *src_btf);

LIBBPF_API int btf__add_int(struct btf *btf, const char *name, size_t byte_sz, int encoding);
LIBBPF_API int btf__add_float(struct btf *btf, const char *name, size_t byte_sz);
LIBBPF_API int btf__add_ptr(struct btf *btf, int ref_type_id);
LIBBPF_API int btf__add_array(struct btf *btf,
        int index_type_id, int elem_type_id, __u32 nr_elems);
/* struct/union construction APIs */
LIBBPF_API int btf__add_struct(struct btf *btf, const char *name, __u32 sz);
LIBBPF_API
```

```
 int btf__add_union(struct btf *btf, const char *name, __u32 sz);
LIBBPF_API int btf__add_field(struct btf *btf, const char *name, int field_type_id,
        __u32 bit_offset, __u32 bit_size);

/* enum construction APIs */
LIBBPF_API int btf__add_enum(struct btf *btf, const char *name, __u32 bytes_sz);
LIBBPF_API int btf__add_enum_value(struct btf *btf, const char *name, __s64 value);
LIBBPF_API int btf__add_enum64(struct btf *btf, const char *name, __u32 bytes_sz, bool is_signed);
LIBBPF_API int btf__add_enum64_value(struct btf *btf, const char *name, __u64 value);

enum btf_fwd_kind {
 BTF_FWD_STRUCT = 0,
 BTF_FWD_UNION = 1,
 BTF_FWD_ENUM = 2,
};

LIBBPF_API int btf__add_fwd(struct btf *btf, const char *name, enum btf_fwd_kind fwd_kind);
LIBBPF_API int btf__add_typedef(struct btf *btf, const char *name, int ref_type_id);
LIBBPF_API int btf__add_volatile(struct btf *btf, int ref_type_id);
LIBBPF_API int btf__add_const(struct btf *btf, int ref_type_id);
LIBBPF_API int btf__add_restrict(struct
 btf *btf, int ref_type_id);
LIBBPF_API int btf__add_type_tag(struct btf *btf, const char *value, int ref_type_id);

/* func and func_proto construction APIs */
LIBBPF_API int btf__add_func(struct btf *btf, const char *name,
       enum btf_func_linkage linkage, int proto_type_id);
LIBBPF_API int btf__add_func_proto(struct btf *btf, int ret_type_id);
LIBBPF_API int btf__add_func_param(struct btf *btf, const char *name, int type_id);

/* var & datasec construction APIs */
LIBBPF_API int btf__add_var(struct btf *btf, const char *name, int linkage, int type_id);
LIBBPF_API int btf__add_datasec(struct btf *btf, const char *name, __u32 byte_sz);
LIBBPF_API int btf__add_datasec_var_info(struct btf *btf, int var_type_id,
      __u32 offset, __u32 byte_sz);

/* tag construction API */
LIBBPF_API int btf__add_decl_tag(struct btf *btf, const char *value, int ref_type_id,
       int component_idx);

struct btf_dedup_opts {
 size_t sz;
 /* optional .BTF.ext info to dedup along the
 main BTF info */
 struct btf_ext *btf_ext;
 /* force hash collisions (used for testing) */
 bool force_collisions;
 size_t :0;
```

```
};
#define btf_dedup_opts__last_field force_collisions

LIBBPF_API int btf__dedup(struct btf *btf, const struct btf_dedup_opts *opts);

struct btf_dump;

struct btf_dump_opts {
 size_t sz;
};
#define btf_dump_opts__last_field sz

typedef void (*btf_dump_printf_fn_t)(void *ctx, const char *fmt, va_list args);

LIBBPF_API struct btf_dump *btf_dump__new(const struct btf *btf,
      btf_dump_printf_fn_t printf_fn,
      void *ctx,
      const struct btf_dump_opts *opts);

LIBBPF_API void btf_dump__free(struct btf_dump *d);

LIBBPF_API int btf_dump__dump_type(struct btf_dump *d, __u32 id);

struct btf_dump_emit_type_decl_opts {
 /* size of this struct, for forward/backward compatiblity */
 size_t sz;
 /* optional field name for type declaration, e.g.:
  * - struct my_struct <FNAME>
  * - void (*<FNAME>)(int)
  * - char (*<FNAME>)[123]
  */
 const char *field_name;
 /*
 extra indentation level (in number of tabs) to emit for multi-line
  * type declarations (e.g., anonymous struct); applies for lines
  * starting from the second one (first line is assumed to have
  * necessary indentation already
  */
 int indent_level;
 /* strip all the const/volatile/restrict mods */
 bool strip_mods;
 size_t :0;
};
#define btf_dump_emit_type_decl_opts__last_field strip_mods

LIBBPF_API int
btf_dump__emit_type_decl(struct btf_dump *d, __u32 id,
   const struct btf_dump_emit_type_decl_opts *opts);
```

```
struct btf_dump_type_data_opts {
 /* size of this struct, for forward/backward compatibility */
 size_t sz;
 const char *indent_str;
 int indent_level;
 /* below match "show" flags for bpf_show_snprintf() */
 bool compact;  /* no newlines/indentation */
 bool skip_names; /* skip member/type names */
 bool emit_zeroes; /* show 0-valued fields */
 size_t :0;
};
#define btf_dump_type_data_opts__last_field emit_zeroes

LIBBPF_API int
btf_dump__dump_type_data(struct btf_dump
 *d, __u32 id,
    const void *data, size_t data_sz,
    const struct btf_dump_type_data_opts *opts);

/*
* A set of helpers for easier BTF types handling.
*
* The inline functions below rely on constants from the kernel headers which
* may not be available for applications including this header file. To avoid
* compilation errors, we define all the constants here that were added after
* the initial introduction of the BTF_KIND* constants.
*/
#ifndef BTF_KIND_FUNC
#define BTF_KIND_FUNC  12 /* Function */
#define BTF_KIND_FUNC_PROTO 13 /* Function Proto */
#endif
#ifndef BTF_KIND_VAR
#define BTF_KIND_VAR  14 /* Variable */
#define BTF_KIND_DATASEC 15 /* Section */
#endif
#ifndef BTF_KIND_FLOAT
#define BTF_KIND_FLOAT  16 /* Floating point */
#endif
/* The kernel header switched to enums, so the following were never #defined */
#define BTF_KIND_DECL_TAG 17 /* Decl Tag */
#define BTF_KIND_TYPE_TAG 18 /* Type Tag */
#define BTF_KIND_ENUM64  19 /* Enum for up-to 64bit values */

static
 inline __u16 btf_kind(const struct btf_type *t)
{
```

```
 return BTF_INFO_KIND(t->info);
}

static inline __u16 btf_vlen(const struct btf_type *t)
{
 return BTF_INFO_VLEN(t->info);
}

static inline bool btf_kflag(const struct btf_type *t)
{
 return BTF_INFO_KFLAG(t->info);
}

static inline bool btf_is_void(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_UNKN;
}

static inline bool btf_is_int(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_INT;
}

static inline bool btf_is_ptr(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_PTR;
}

static inline bool btf_is_array(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_ARRAY;
}

static inline bool btf_is_struct(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_STRUCT;
}

static inline bool btf_is_union(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_UNION;
}

static inline bool btf_is_composite(const struct btf_type *t)
{
 __u16 kind = btf_kind(t);

 return kind == BTF_KIND_STRUCT
```

```
 || kind == BTF_KIND_UNION;
}

static inline bool btf_is_enum(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_ENUM;
}

static inline bool btf_is_enum64(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_ENUM64;
}

static inline bool btf_is_fwd(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_FWD;
}

static inline bool btf_is_typedef(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_TYPEDEF;
}

static inline bool btf_is_volatile(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_VOLATILE;
}

static inline bool btf_is_const(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_CONST;
}

static inline bool btf_is_restrict(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_RESTRICT;
}

static inline bool btf_is_mod(const struct btf_type *t)
{
 __u16 kind = btf_kind(t);

 return kind == BTF_KIND_VOLATILE ||
        kind == BTF_KIND_CONST ||
        kind == BTF_KIND_RESTRICT ||
        kind == BTF_KIND_TYPE_TAG;
}
```

```
static
 inline bool btf_is_func(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_FUNC;
}

static inline bool btf_is_func_proto(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_FUNC_PROTO;
}

static inline bool btf_is_var(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_VAR;
}

static inline bool btf_is_datasec(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_DATASEC;
}

static inline bool btf_is_float(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_FLOAT;
}

static inline bool btf_is_decl_tag(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_DECL_TAG;
}

static inline bool btf_is_type_tag(const struct btf_type *t)
{
 return btf_kind(t) == BTF_KIND_TYPE_TAG;
}

static inline bool btf_is_any_enum(const struct btf_type *t)
{
 return btf_is_enum(t) || btf_is_enum64(t);
}

static inline bool btf_kind_core_compat(const struct btf_type *t1,
     const struct btf_type *t2)
{
 return btf_kind(t1) == btf_kind(t2) ||
        (btf_is_any_enum(t1)
 && btf_is_any_enum(t2));
}
```

```
static inline __u8 btf_int_encoding(const struct btf_type *t)
{
 return BTF_INT_ENCODING(*(__u32 *)(t + 1));
}

static inline __u8 btf_int_offset(const struct btf_type *t)
{
 return BTF_INT_OFFSET(*(__u32 *)(t + 1));
}

static inline __u8 btf_int_bits(const struct btf_type *t)
{
 return BTF_INT_BITS(*(__u32 *)(t + 1));
}

static inline struct btf_array *btf_array(const struct btf_type *t)
{
 return (struct btf_array *)(t + 1);
}

static inline struct btf_enum *btf_enum(const struct btf_type *t)
{
 return (struct btf_enum *)(t + 1);
}

struct btf_enum64;

static inline struct btf_enum64 *btf_enum64(const struct btf_type *t)
{
 return (struct btf_enum64 *)(t + 1);
}

static inline __u64 btf_enum64_value(const struct btf_enum64 *e)
{
 /* struct btf_enum64 is introduced in Linux 6.0, which is very
  * bleeding-edge. Here we are avoiding relying on struct btf_enum64
  * definition coming from kernel UAPI headers to support wider range
  * of system-wide
 kernel headers.
  *
  * Given this header can be also included from C++ applications, that
  * further restricts C tricks we can use (like using compatible
  * anonymous struct). So just treat struct btf_enum64 as
  * a three-element array of u32 and access second (lo32) and third
  * (hi32) elements directly.
  *
  * For reference, here is a struct btf_enum64 definition:
```

```
 *
 * const struct btf_enum64 {
 * __u32 name_off;
 * __u32 val_lo32;
 * __u32 val_hi32;
 * };
 */
 const __u32 *e64 = (const __u32 *)e;

 return ((__u64)e64[2] << 32) | e64[1];
}

static inline struct btf_member *btf_members(const struct btf_type *t)
{
 return (struct btf_member *)(t + 1);
}

/* Get bit offset of a member with specified index. */
static inline __u32 btf_member_bit_offset(const struct btf_type *t,
       __u32 member_idx)
{
 const struct btf_member *m = btf_members(t) + member_idx;
 bool kflag = btf_kflag(t);

 return kflag ? BTF_MEMBER_BIT_OFFSET(m->offset) : m->offset;
}
/*
* Get bitfield size
 of a member, assuming t is BTF_KIND_STRUCT or
* BTF_KIND_UNION. If member is not a bitfield, zero is returned.
*/
static inline __u32 btf_member_bitfield_size(const struct btf_type *t,
         __u32 member_idx)
{
 const struct btf_member *m = btf_members(t) + member_idx;
 bool kflag = btf_kflag(t);

 return kflag ? BTF_MEMBER_BITFIELD_SIZE(m->offset) : 0;
}

static inline struct btf_param *btf_params(const struct btf_type *t)
{
 return (struct btf_param *)(t + 1);
}

static inline struct btf_var *btf_var(const struct btf_type *t)
{
 return (struct btf_var *)(t + 1);
```

```
}

static inline struct btf_var_secinfo *
btf_var_secinfos(const struct btf_type *t)
{
 return (struct btf_var_secinfo *)(t + 1);
}

struct btf_decl_tag;
static inline struct btf_decl_tag *btf_decl_tag(const struct btf_type *t)
{
 return (struct btf_decl_tag *)(t + 1);
}

#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* __LIBBPF_BTF_H */
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2023 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_NAT_H__
#define __CALI_NAT_H__

#ifndef CALI_VXLAN_VNI
#define CALI_VXLAN_VNI 0xca11c0
#endif

#define vxlan_udp_csum_ok(udp) ((udp)->check == 0)

#ifdef IPVER6
#include "nat6.h"
#else
#include "nat4.h"
#endif

#define dnat_should_encap() (CALI_F_FROM_HEP && !CALI_F_TUNNEL && !CALI_F_L3_DEV &&
!CALI_F_NAT_IF)
#define dnat_return_should_encap() (CALI_F_FROM_WEP && !CALI_F_TUNNEL && !CALI_F_L3_DEV &&
!CALI_F_NAT_IF)
#define dnat_should_decap() (CALI_F_FROM_HEP && !CALI_F_TUNNEL && !CALI_F_L3_DEV &&
!CALI_F_NAT_IF)

static CALI_BPF_INLINE int is_vxlan_tunnel(struct cali_tc_ctx *ctx, __u16 vxlanport)
{
 return ctx->state->ip_proto == IPPROTO_UDP &&
```

```
  ctx->state->dport == vxlanport;
}

static CALI_BPF_INLINE bool vxlan_encap_too_big(struct cali_tc_ctx *ctx)
{
 __u32 mtu = TUNNEL_MTU;

 /* RFC-1191: MTU is the size in
 octets of the largest datagram that
  * could be forwarded, along the path of the original datagram, without
  * being fragmented at this router.  The size includes the IP header and
  * IP data, and does not include any lower-level headers.
  */
 if (ctx->skb->len > sizeof(struct ethhdr) + mtu) {
  CALI_DEBUG("SKB too long (len=%d) vs limit=%d\n", ctx->skb->len, mtu);
  return true;
 }
 return false;
}

#define EFAULT 14

static CALI_BPF_INLINE int skb_nat_l4_csum(struct cali_tc_ctx *ctx, size_t off,
        ipv46_addr_t ip_src_from, ipv46_addr_t ip_src_to,
        ipv46_addr_t ip_dst_from, ipv46_addr_t ip_dst_to,
        __u16 dport_from, __u16 dport_to,
        __u16 sport_from, __u16 sport_to,
        __u64 flags,
        bool inner_icmp)
{
 int ret = 0;
 struct __sk_buff *skb = ctx->skb;

 if (!inner_icmp) {
  /* Write back L4 header. */
  if (ctx->ipheader_len == IP_SIZE) {
   if (ctx->state->ip_proto == IPPROTO_TCP) {
    if (skb_refresh_validate_ptrs(ctx, TCP_SIZE)) {
     deny_reason(ctx,
 CALI_REASON_SHORT);
     CALI_DEBUG("Too short\n");
     return -EFAULT;
    }
    __builtin_memcpy(((void*)ip_hdr(ctx))+IP_SIZE, ctx->scratch->l4, TCP_SIZE);
   } else {
    if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
     deny_reason(ctx, CALI_REASON_SHORT);
     CALI_DEBUG("Too short\n");
```

```
    return -EFAULT;
   }
   __builtin_memcpy(((void*)ip_hdr(ctx))+IP_SIZE, ctx->scratch->l4, UDP_SIZE);
  }
 } else {
  int size = l4_hdr_len(ctx);
  int offset = skb_l4hdr_offset(ctx);

  if (size == 0) {
   CALI_DEBUG("Bad L4 proto\n");
   return -EFAULT;
  }
  if (bpf_skb_store_bytes(ctx->skb, offset, ctx->scratch->l4, size, 0)) {
   CALI_DEBUG("Too short\n");
   return -EFAULT;
  }
 }
}

/* We start with csum == 0 (seed for the first diff) as we are calculating just
 * the diff between 2 IPs. We then feed the result as a seed to the next diff if
 * we need to as a carry-over.
 *
 * We must use diff because the replace functions cannot calculate a diff for
16
 * byte ipv6 addresses in one go. And this keeps the code the same for v4/6 with
 * minimal impact on v4.
 */
__wsum csum = 0;

bool csum_update = false;

if (!ip_equal(ip_src_from, ip_src_to)) {
 CALI_DEBUG("L4 checksum update src IP from " IP_FMT " to " IP_FMT "\n",
   debug_ip(ip_src_from), debug_ip(ip_src_to));

 csum = bpf_csum_diff((__u32*)&ip_src_from, sizeof(ip_src_from), (__u32*)&ip_src_to, sizeof(ip_src_to), csum);
 CALI_DEBUG("bpf_l4_csum_diff(IP): 0x%x\n", csum);
 csum_update = true;
}
if (!ip_equal(ip_dst_from, ip_dst_to)) {
 CALI_DEBUG("L4 checksum update dst IP from " IP_FMT " to " IP_FMT "\n",
   debug_ip(ip_dst_from), debug_ip(ip_dst_to));
 csum = bpf_csum_diff((__u32*)&ip_dst_from, sizeof(ip_dst_from), (__u32*)&ip_dst_to, sizeof(ip_dst_to), csum);
 CALI_DEBUG("bpf_l4_csum_diff(IP): 0x%x\n", csum);
 csum_update = true;
}
```

```
 /* If the IPs have changed we must replace it as part of the pseudo header that is
  * used to calculate L4 csum.
  *
  * If
 we are fixing inner ICMP payload, we do not change L4 csum for the payload
  * (no need for that, it is just a fraction of the packet), but the L4 here is the
  * ICMP itself since its payload has changed. ICMPv4 does not include the pseudo
  * header in the csum and v6 had it already fixed when we modified the outer IP.
  */
 if (csum_update) {
  ret = bpf_l4_csum_replace(skb, off, 0, csum, flags | (inner_icmp ? 0 : BPF_F_PSEUDO_HDR));
 }

 /* We can use replace for ports in both v4/6 as they are the same size of 2 bytes. */
 if (sport_from != sport_to) {
  CALI_DEBUG("L4 checksum update sport from %d to %d\n",
    bpf_ntohs(sport_from), bpf_ntohs(sport_to));
  int rc = bpf_l4_csum_replace(skb, off, sport_from, sport_to, flags | 2);
  CALI_DEBUG("bpf_l4_csum_replace(sport): %d\n", rc);
  ret |= rc;
 }
 if (dport_from != dport_to) {
  CALI_DEBUG("L4 checksum update dport from %d to %d\n",
    bpf_ntohs(dport_from), bpf_ntohs(dport_to));
  int rc = bpf_l4_csum_replace(skb, off, dport_from,
 dport_to, flags | 2);
  CALI_DEBUG("bpf_l4_csum_replace(dport): %d\n", rc);
  ret |= rc;
 }

 return ret;
}

/* vxlan_attempt_decap tries to decode the packet as VXLAN and, if it is a BPF-to-BPF
* program VXLAN packet, does the decap. Returns:
*
* 0:  on success (either a packet that doesn't need decap or decap was successful).
* -1: if the packet was invalid (e.g. too short)
* -2: if the packet is VXLAN from a Calico host, to this node, but it is not the right VNI.
*/
static CALI_BPF_INLINE int vxlan_attempt_decap(struct cali_tc_ctx *ctx)
{
 /* decap on host ep only if directly for the node */
 CALI_DEBUG("VXLAN tunnel packet to " IP_FMT " (host IP=" IP_FMT ")\n",
#ifdef IPVER6
  bpf_ntohl(ip_hdr(ctx)->daddr.in6_u.u6_addr32[3]),
#else
  bpf_ntohl(ip_hdr(ctx)->daddr),
```

```
#endif
  debug_ip(HOST_IP));

 if (!rt_addr_is_local_host((ipv46_addr_t *)&ip_hdr(ctx)->daddr)) {
  goto fall_through;
 }
 if (!vxlan_size_ok(ctx)) {
  /* UDP header said VXLAN but packet wasn't long enough. */
  deny_reason(ctx,
 CALI_REASON_SHORT);
  CALI_DEBUG("Too short\n");
  goto deny;
 }
 if (!vxlan_vni_is_valid(ctx) ) {
  CALI_DEBUG("VXLAN: Invalid VNI\n");
  goto fall_through;
 }
 if (vxlan_vni(ctx) != CALI_VXLAN_VNI) {
  if (rt_addr_is_remote_host((ipv46_addr_t *)&ip_hdr(ctx)->saddr)) {
   /* Not BPF-generated VXLAN packet but it was from a Calico host to this node. */
   CALI_DEBUG("VXLAN: non-tunnel calico\n");
   goto auto_allow;
  }
  /* Not our VNI, not from Calico host. Fall through to policy. */
  CALI_DEBUG("VXLAN: Not our VNI\n");
  goto fall_through;
 }
 if (!rt_addr_is_remote_host((ipv46_addr_t *)&ip_hdr(ctx)->saddr)) {
  CALI_DEBUG("VXLAN with our VNI from unexpected source.\n");
  deny_reason(ctx, CALI_REASON_UNAUTH_SOURCE);
  goto deny;
 }
 if (!vxlan_udp_csum_ok(udp_hdr(ctx))) {
  /* Our VNI but checksum is incorrect (we always use check=0). */
  CALI_DEBUG("VXLAN with our VNI but incorrect checksum.\n");
  deny_reason(ctx, CALI_REASON_UNAUTH_SOURCE);
  goto deny;
 }

 /*
 We update the map straight with the packet data, eth header is
  * dst:src but the value is src:dst so it flips it automatically
  * when we use it on xmit.
  */
 struct arp_key arpk = {
  .ifindex = ctx->skb->ifindex,
 };
#ifdef IPVER6
```

```
 ipv6hdr_ip_to_ipv6_addr_t(&arpk.ip, &ip_hdr(ctx)->saddr);
#else
 arpk.ip = ip_hdr(ctx)->saddr;
#endif
 cali_arp_update_elem(&arpk, eth_hdr(ctx), 0);
 CALI_DEBUG("ARP update for ifindex %d ip " IP_FMT "\n", arpk.ifindex, debug_ip(arpk.ip));

#ifdef IPVER6
 ipv6hdr_ip_to_ipv6_addr_t(&ctx->state->tun_ip, &ip_hdr(ctx)->saddr);
#else
 ctx->state->tun_ip = ip_hdr(ctx)->saddr;
#endif
 CALI_DEBUG("vxlan decap\n");
 if (vxlan_decap(ctx->skb)) {
  deny_reason(ctx, CALI_REASON_DECAP_FAIL);
  goto deny;
 }

 /* Revalidate the packet after the decap. */
 if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("Too short\n");
  goto deny;
 }

 CALI_DEBUG("vxlan decap origin " IP_FMT "\n", debug_ip(ctx->state->tun_ip));

fall_through:
 return
 0;

auto_allow:
 return -2;

deny:
 ctx->fwd.res = TC_ACT_SHOT;
 return -1;
}


#endif /* __CALI_NAT_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

/*
* Common BPF ELF operations.
*
* Copyright (C) 2013-2015 Alexei Starovoitov <ast@kernel.org>
* Copyright (C) 2015 Wang Nan <wangnan0@huawei.com>
```

```
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*
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* License along with this program; if not,  see <http://www.gnu.org/licenses>
*/
#ifndef __LIBBPF_BPF_H
#define __LIBBPF_BPF_H

#include <linux/bpf.h>
#include <stdbool.h>
#include <stddef.h>
#include
 <stdint.h>

#include "libbpf_common.h"
#include "libbpf_legacy.h"

#ifdef __cplusplus
extern "C" {
#endif

LIBBPF_API int libbpf_set_memlock_rlim(size_t memlock_bytes);

struct bpf_map_create_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */

 __u32 btf_fd;
 __u32 btf_key_type_id;
 __u32 btf_value_type_id;
 __u32 btf_vmlinux_value_type_id;

 __u32 inner_map_fd;
 __u32 map_flags;
 __u64 map_extra;

 __u32 numa_node;
 __u32 map_ifindex;
 __s32 value_type_btf_obj_fd;
```

```
 __u32 token_fd;
 size_t :0;
};
#define bpf_map_create_opts__last_field token_fd

LIBBPF_API int bpf_map_create(enum bpf_map_type map_type,
        const char *map_name,
        __u32 key_size,
        __u32 value_size,
        __u32 max_entries,
        const struct bpf_map_create_opts *opts);

struct bpf_prog_load_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */

 /* libbpf can retry BPF_PROG_LOAD command if bpf() syscall returns
  * -EAGAIN. This field
 determines how many attempts libbpf has to
  *  make. If not specified, libbpf will use default value of 5.
  */
 int attempts;

 enum bpf_attach_type expected_attach_type;
 __u32 prog_btf_fd;
 __u32 prog_flags;
 __u32 prog_ifindex;
 __u32 kern_version;

 __u32 attach_btf_id;
 __u32 attach_prog_fd;
 __u32 attach_btf_obj_fd;

 const int *fd_array;

 /* .BTF.ext func info data */
 const void *func_info;
 __u32 func_info_cnt;
 __u32 func_info_rec_size;

 /* .BTF.ext line info data */
 const void *line_info;
 __u32 line_info_cnt;
 __u32 line_info_rec_size;

 /* verifier log options */
 __u32 log_level;
 __u32 log_size;
```

```
 char *log_buf;
 /* output: actual total log contents size (including termintaing zero).
  * It could be both larger than original log_size (if log was
  * truncated), or smaller (if log buffer wasn't filled completely).
  * If kernel doesn't support this feature, log_size is left unchanged.
  */
 __u32 log_true_size;
 __u32 token_fd;
 size_t :0;
};
#define bpf_prog_load_opts__last_field
 token_fd

LIBBPF_API int bpf_prog_load(enum bpf_prog_type prog_type,
        const char *prog_name, const char *license,
        const struct bpf_insn *insns, size_t insn_cnt,
        struct bpf_prog_load_opts *opts);

/* Flags to direct loading requirements */
#define MAPS_RELAX_COMPAT 0x01

/* Recommended log buffer size */
#define BPF_LOG_BUF_SIZE (UINT32_MAX >> 8) /* verifier maximum in kernels <= 5.1 */

struct bpf_btf_load_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */

 /* kernel log options */
 char *log_buf;
 __u32 log_level;
 __u32 log_size;
 /* output: actual total log contents size (including termintaing zero).
  * It could be both larger than original log_size (if log was
  * truncated), or smaller (if log buffer wasn't filled completely).
  * If kernel doesn't support this feature, log_size is left unchanged.
  */
 __u32 log_true_size;

 __u32 btf_flags;
 __u32 token_fd;
 size_t :0;
};
#define bpf_btf_load_opts__last_field token_fd

LIBBPF_API
 int bpf_btf_load(const void *btf_data, size_t btf_size,
       struct bpf_btf_load_opts *opts);
```

```
LIBBPF_API int bpf_map_update_elem(int fd, const void *key, const void *value,
      __u64 flags);

LIBBPF_API int bpf_map_lookup_elem(int fd, const void *key, void *value);
LIBBPF_API int bpf_map_lookup_elem_flags(int fd, const void *key, void *value,
      __u64 flags);
LIBBPF_API int bpf_map_lookup_and_delete_elem(int fd, const void *key,
          void *value);
LIBBPF_API int bpf_map_lookup_and_delete_elem_flags(int fd, const void *key,
         void *value, __u64 flags);
LIBBPF_API int bpf_map_delete_elem(int fd, const void *key);
LIBBPF_API int bpf_map_delete_elem_flags(int fd, const void *key, __u64 flags);
LIBBPF_API int bpf_map_get_next_key(int fd, const void *key, void *next_key);
LIBBPF_API int bpf_map_freeze(int fd);

struct bpf_map_batch_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u64 elem_flags;
 __u64 flags;
};
#define
 bpf_map_batch_opts__last_field flags


/**
* @brief **bpf_map_delete_batch()** allows for batch deletion of multiple
* elements in a BPF map.
*
* @param fd BPF map file descriptor
* @param keys pointer to an array of *count* keys
* @param count input and output parameter; on input **count** represents the
* number of  elements in the map to delete in batch;
* on output if a non-EFAULT error is returned, **count** represents the number of deleted
* elements if the output **count** value is not equal to the input **count** value
* If EFAULT is returned, **count** should not be trusted to be correct.
* @param opts options for configuring the way the batch deletion works
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_map_delete_batch(int fd, const void *keys,
        __u32 *count,
        const struct bpf_map_batch_opts *opts);

/**
* @brief **bpf_map_lookup_batch()** allows for batch lookup of BPF map
 elements.
*
* The parameter *in_batch* is the address of the first element in the batch to
```

```
* read. *out_batch* is an output parameter that should be passed as *in_batch*
* to subsequent calls to **bpf_map_lookup_batch()**. NULL can be passed for
* *in_batch* to indicate that the batched lookup starts from the beginning of
* the map. Both *in_batch* and *out_batch* must point to memory large enough to
* hold a single key, except for maps of type **BPF_MAP_TYPE_{HASH, PERCPU_HASH,
* LRU_HASH, LRU_PERCPU_HASH}**, for which the memory size must be at
* least 4 bytes wide regardless of key size.
*
* The *keys* and *values* are output parameters which must point to memory large enough to
* hold *count* items based on the key and value size of the map *map_fd*. The *keys*
* buffer must be of *key_size* * *count*. The *values* buffer must be of
* *value_size* * *count*.
*
* @param fd BPF map file descriptor
* @param in_batch address of the first element in batch to read, can
 pass NULL to
* indicate that the batched lookup starts from the beginning of the map.
* @param out_batch output parameter that should be passed to next call as *in_batch*
* @param keys pointer to an array large enough for *count* keys
* @param values pointer to an array large enough for *count* values
* @param count input and output parameter; on input it's the number of elements
* in the map to read in batch; on output it's the number of elements that were
* successfully read.
* If a non-EFAULT error is returned, count will be set as the number of elements
* that were read before the error occurred.
* If EFAULT is returned, **count** should not be trusted to be correct.
* @param opts options for configuring the way the batch lookup works
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_map_lookup_batch(int fd, void *in_batch, void *out_batch,
        void *keys, void *values, __u32 *count,
        const
 struct bpf_map_batch_opts *opts);

/**
* @brief **bpf_map_lookup_and_delete_batch()** allows for batch lookup and deletion
* of BPF map elements where each element is deleted after being retrieved.
*
* @param fd BPF map file descriptor
* @param in_batch address of the first element in batch to read, can pass NULL to
* get address of the first element in *out_batch*. If not NULL, must be large
* enough to hold a key. For **BPF_MAP_TYPE_{HASH, PERCPU_HASH, LRU_HASH,
* LRU_PERCPU_HASH}**, the memory size must be at least 4 bytes wide regardless
* of key size.
* @param out_batch output parameter that should be passed to next call as *in_batch*
* @param keys pointer to an array of *count* keys
* @param values pointer to an array large enough for *count* values
```

```
* @param count input and output parameter; on input it's the number of elements
* in the map to read and delete in batch; on output it represents the number of
* elements that were successfully read and deleted
* If
 a non-**EFAULT** error code is returned and if the output **count** value
* is not equal to the input **count** value, up to **count** elements may
* have been deleted.
* if **EFAULT** is returned up to *count* elements may have been deleted without
* being returned via the *keys* and *values* output parameters.
* @param opts options for configuring the way the batch lookup and delete works
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_map_lookup_and_delete_batch(int fd, void *in_batch,
    void *out_batch, void *keys,
    void *values, __u32 *count,
    const struct bpf_map_batch_opts *opts);

/**
* @brief **bpf_map_update_batch()** updates multiple elements in a map
* by specifying keys and their corresponding values.
*
* The *keys* and *values* parameters must point to memory large enough
* to hold *count* items based on the key and value size of the map.
*
* The *opts* parameter can be used to
 control how *bpf_map_update_batch()*
* should handle keys that either do or do not already exist in the map.
* In particular the *flags* parameter of *bpf_map_batch_opts* can be
* one of the following:
*
* Note that *count* is an input and output parameter, where on output it
* represents how many elements were successfully updated. Also note that if
* **EFAULT** then *count* should not be trusted to be correct.
*
* **BPF_ANY**
*    Create new elements or update existing.
*
* **BPF_NOEXIST**
*    Create new elements only if they do not exist.
*
* **BPF_EXIST**
*    Update existing elements.
*
* **BPF_F_LOCK**
*    Update spin_lock-ed map elements. This must be
*    specified if the map value contains a spinlock.
*
```

```
* @param fd BPF map file descriptor
* @param keys pointer to an array of *count* keys
* @param values pointer to an array of *count* values
* @param count input and output parameter; on input it's the number of elements
* in the map to update in batch;
 on output if a non-EFAULT error is returned,
* **count** represents the number of updated elements if the output **count**
* value is not equal to the input **count** value.
* If EFAULT is returned, **count** should not be trusted to be correct.
* @param opts options for configuring the way the batch update works
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_map_update_batch(int fd, const void *keys, const void *values,
        __u32 *count,
        const struct bpf_map_batch_opts *opts);

struct bpf_obj_pin_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */

 __u32 file_flags;
 int path_fd;

 size_t :0;
};
#define bpf_obj_pin_opts__last_field path_fd

LIBBPF_API int bpf_obj_pin(int fd, const char *pathname);
LIBBPF_API int bpf_obj_pin_opts(int fd, const char *pathname,
    const struct bpf_obj_pin_opts *opts);

struct bpf_obj_get_opts {
 size_t sz; /* size of this struct for
 forward/backward compatibility */

 __u32 file_flags;
 int path_fd;

 size_t :0;
};
#define bpf_obj_get_opts__last_field path_fd

LIBBPF_API int bpf_obj_get(const char *pathname);
LIBBPF_API int bpf_obj_get_opts(const char *pathname,
    const struct bpf_obj_get_opts *opts);

LIBBPF_API int bpf_prog_attach(int prog_fd, int attachable_fd,
         enum bpf_attach_type type, unsigned int flags);
```

```
LIBBPF_API int bpf_prog_detach(int attachable_fd, enum bpf_attach_type type);
LIBBPF_API int bpf_prog_detach2(int prog_fd, int attachable_fd,
    enum bpf_attach_type type);

struct bpf_prog_attach_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u32 flags;
 union {
  int replace_prog_fd;
  int replace_fd;
 };
 int relative_fd;
 __u32 relative_id;
 __u64 expected_revision;
 size_t :0;
};
#define bpf_prog_attach_opts__last_field expected_revision

struct bpf_prog_detach_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u32 flags;
 int
 relative_fd;
 __u32 relative_id;
 __u64 expected_revision;
 size_t :0;
};
#define bpf_prog_detach_opts__last_field expected_revision

/**
* @brief **bpf_prog_attach_opts()** attaches the BPF program corresponding to
* *prog_fd* to a *target* which can represent a file descriptor or netdevice
* ifindex.
*
* @param prog_fd BPF program file descriptor
* @param target attach location file descriptor or ifindex
* @param type attach type for the BPF program
* @param opts options for configuring the attachment
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_prog_attach_opts(int prog_fd, int target,
        enum bpf_attach_type type,
        const struct bpf_prog_attach_opts *opts);

/**
* @brief **bpf_prog_detach_opts()** detaches the BPF program corresponding to
* *prog_fd* from a *target* which can represent a file descriptor or netdevice
```

```
* ifindex.
*
* @param prog_fd BPF program file descriptor
* @param
 target detach location file descriptor or ifindex
* @param type detach type for the BPF program
* @param opts options for configuring the detachment
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_prog_detach_opts(int prog_fd, int target,
        enum bpf_attach_type type,
        const struct bpf_prog_detach_opts *opts);

union bpf_iter_link_info; /* defined in up-to-date linux/bpf.h */
struct bpf_link_create_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u32 flags;
 union bpf_iter_link_info *iter_info;
 __u32 iter_info_len;
 __u32 target_btf_id;
 union {
  struct {
   __u64 bpf_cookie;
  } perf_event;
  struct {
   __u32 flags;
   __u32 cnt;
   const char **syms;
   const unsigned long *addrs;
   const __u64 *cookies;
  } kprobe_multi;
  struct {
   __u32 flags;
   __u32 cnt;
   const char *path;
   const unsigned long *offsets;
   const unsigned long *ref_ctr_offsets;
   const
 __u64 *cookies;
   __u32 pid;
  } uprobe_multi;
  struct {
   __u64 cookie;
  } tracing;
  struct {
   __u32 pf;
   __u32 hooknum;
```

```
  __s32 priority;
  __u32 flags;
 } netfilter;
 struct {
  __u32 relative_fd;
  __u32 relative_id;
  __u64 expected_revision;
 } tcx;
 struct {
  __u32 relative_fd;
  __u32 relative_id;
  __u64 expected_revision;
 } netkit;
};
size_t :0;
};
#define bpf_link_create_opts__last_field uprobe_multi.pid

LIBBPF_API int bpf_link_create(int prog_fd, int target_fd,
        enum bpf_attach_type attach_type,
        const struct bpf_link_create_opts *opts);

LIBBPF_API int bpf_link_detach(int link_fd);

struct bpf_link_update_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u32 flags;    /* extra flags */
 __u32 old_prog_fd; /* expected old program FD */
 __u32 old_map_fd;  /* expected old map FD */
};
#define bpf_link_update_opts__last_field old_map_fd

LIBBPF_API int bpf_link_update(int link_fd, int new_prog_fd,

      const struct bpf_link_update_opts *opts);

LIBBPF_API int bpf_iter_create(int link_fd);

struct bpf_prog_test_run_attr {
 int prog_fd;
 int repeat;
 const void *data_in;
 __u32 data_size_in;
 void *data_out;      /* optional */
 __u32 data_size_out; /* in: max length of data_out
        * out: length of data_out */
 __u32 retval;        /* out: return code of the BPF program */
 __u32 duration;      /* out: average per repetition in ns */
```

```
 const void *ctx_in; /* optional */
 __u32 ctx_size_in;
 void *ctx_out;      /* optional */
 __u32 ctx_size_out; /* in: max length of ctx_out
        * out: length of cxt_out */
};

LIBBPF_API int bpf_prog_get_next_id(__u32 start_id, __u32 *next_id);
LIBBPF_API int bpf_map_get_next_id(__u32 start_id, __u32 *next_id);
LIBBPF_API int bpf_btf_get_next_id(__u32 start_id, __u32 *next_id);
LIBBPF_API int bpf_link_get_next_id(__u32 start_id, __u32 *next_id);

struct bpf_get_fd_by_id_opts {
 size_t sz; /* size of this struct for forward/backward
 compatibility */
 __u32 open_flags; /* permissions requested for the operation on fd */
 size_t :0;
};
#define bpf_get_fd_by_id_opts__last_field open_flags

LIBBPF_API int bpf_prog_get_fd_by_id(__u32 id);
LIBBPF_API int bpf_prog_get_fd_by_id_opts(__u32 id,
    const struct bpf_get_fd_by_id_opts *opts);
LIBBPF_API int bpf_map_get_fd_by_id(__u32 id);
LIBBPF_API int bpf_map_get_fd_by_id_opts(__u32 id,
    const struct bpf_get_fd_by_id_opts *opts);
LIBBPF_API int bpf_btf_get_fd_by_id(__u32 id);
LIBBPF_API int bpf_btf_get_fd_by_id_opts(__u32 id,
    const struct bpf_get_fd_by_id_opts *opts);
LIBBPF_API int bpf_link_get_fd_by_id(__u32 id);
LIBBPF_API int bpf_link_get_fd_by_id_opts(__u32 id,
    const struct bpf_get_fd_by_id_opts *opts);
LIBBPF_API int bpf_obj_get_info_by_fd(int bpf_fd, void *info, __u32 *info_len);

/**
* @brief **bpf_prog_get_info_by_fd()** obtains information about the BPF
* program corresponding to *prog_fd*.
*
* Populates up to *info_len* bytes of *info* and updates
 *info_len* with the
* actual number of bytes written to *info*. Note that *info* should be
* zero-initialized or initialized as expected by the requested *info*
* type. Failing to (zero-)initialize *info* under certain circumstances can
* result in this helper returning an error.
*
* @param prog_fd BPF program file descriptor
* @param info pointer to **struct bpf_prog_info** that will be populated with
* BPF program information
```

```
* @param info_len pointer to the size of *info*; on success updated with the
* number of bytes written to *info*
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_prog_get_info_by_fd(int prog_fd, struct bpf_prog_info *info, __u32 *info_len);

/**
* @brief **bpf_map_get_info_by_fd()** obtains information about the BPF
* map corresponding to *map_fd*.
*
* Populates up to *info_len* bytes of *info* and updates *info_len* with the
* actual number of bytes written to *info*.
 Note that *info* should be
* zero-initialized or initialized as expected by the requested *info*
* type. Failing to (zero-)initialize *info* under certain circumstances can
* result in this helper returning an error.
*
* @param map_fd BPF map file descriptor
* @param info pointer to **struct bpf_map_info** that will be populated with
* BPF map information
* @param info_len pointer to the size of *info*; on success updated with the
* number of bytes written to *info*
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_map_get_info_by_fd(int map_fd, struct bpf_map_info *info, __u32 *info_len);

/**
* @brief **bpf_btf_get_info_by_fd()** obtains information about the
* BTF object corresponding to *btf_fd*.
*
* Populates up to *info_len* bytes of *info* and updates *info_len* with the
* actual number of bytes written to *info*. Note that *info* should be
* zero-initialized or initialized as expected by the requested
 *info*
* type. Failing to (zero-)initialize *info* under certain circumstances can
* result in this helper returning an error.
*
* @param btf_fd BTF object file descriptor
* @param info pointer to **struct bpf_btf_info** that will be populated with
* BTF object information
* @param info_len pointer to the size of *info*; on success updated with the
* number of bytes written to *info*
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_btf_get_info_by_fd(int btf_fd, struct bpf_btf_info *info, __u32 *info_len);
```

```
/**
* @brief **bpf_btf_get_info_by_fd()** obtains information about the BPF
* link corresponding to *link_fd*.
*
* Populates up to *info_len* bytes of *info* and updates *info_len* with the
* actual number of bytes written to *info*. Note that *info* should be
* zero-initialized or initialized as expected by the requested *info*
* type. Failing to (zero-)initialize *info* under certain circumstances
 can
* result in this helper returning an error.
*
* @param link_fd BPF link file descriptor
* @param info pointer to **struct bpf_link_info** that will be populated with
* BPF link information
* @param info_len pointer to the size of *info*; on success updated with the
* number of bytes written to *info*
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_link_get_info_by_fd(int link_fd, struct bpf_link_info *info, __u32 *info_len);

struct bpf_prog_query_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u32 query_flags;
 __u32 attach_flags; /* output argument */
 __u32 *prog_ids;
 union {
  /* input+output argument */
  __u32 prog_cnt;
  __u32 count;
 };
 __u32 *prog_attach_flags;
 __u32 *link_ids;
 __u32 *link_attach_flags;
 __u64 revision;
 size_t :0;
};
#define bpf_prog_query_opts__last_field revision

/**
* @brief **bpf_prog_query_opts()** queries the BPF programs
 and BPF links
* which are attached to *target* which can represent a file descriptor or
* netdevice ifindex.
*
* @param target query location file descriptor or ifindex
* @param type attach type for the BPF program
```

```
* @param opts options for configuring the query
* @return 0, on success; negative error code, otherwise (errno is also set to
* the error code)
*/
LIBBPF_API int bpf_prog_query_opts(int target, enum bpf_attach_type type,
       struct bpf_prog_query_opts *opts);
LIBBPF_API int bpf_prog_query(int target_fd, enum bpf_attach_type type,
         __u32 query_flags, __u32 *attach_flags,
         __u32 *prog_ids, __u32 *prog_cnt);

struct bpf_raw_tp_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 const char *tp_name;
 __u64 cookie;
 size_t :0;
};
#define bpf_raw_tp_opts__last_field cookie

LIBBPF_API int bpf_raw_tracepoint_open_opts(int prog_fd, struct bpf_raw_tp_opts *opts);
LIBBPF_API int bpf_raw_tracepoint_open(const char *name, int
 prog_fd);
LIBBPF_API int bpf_task_fd_query(int pid, int fd, __u32 flags, char *buf,
     __u32 *buf_len, __u32 *prog_id, __u32 *fd_type,
     __u64 *probe_offset, __u64 *probe_addr);

#ifdef __cplusplus
/* forward-declaring enums in C++ isn't compatible with pure C enums, so
* instead define bpf_enable_stats() as accepting int as an input
*/
LIBBPF_API int bpf_enable_stats(int type);
#else
enum bpf_stats_type; /* defined in up-to-date linux/bpf.h */
LIBBPF_API int bpf_enable_stats(enum bpf_stats_type type);
#endif

struct bpf_prog_bind_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u32 flags;
};
#define bpf_prog_bind_opts__last_field flags

LIBBPF_API int bpf_prog_bind_map(int prog_fd, int map_fd,
     const struct bpf_prog_bind_opts *opts);

struct bpf_test_run_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 const void *data_in; /* optional */
 void *data_out;      /* optional */
```

```
 __u32 data_size_in;
 __u32 data_size_out;
 /* in: max length of data_out
        * out: length of data_out
        */
 const void *ctx_in; /* optional */
 void *ctx_out;      /* optional */
 __u32 ctx_size_in;
 __u32 ctx_size_out; /* in: max length of ctx_out
       * out: length of cxt_out
       */
 __u32 retval;       /* out: return code of the BPF program */
 int repeat;
 __u32 duration;     /* out: average per repetition in ns */
 __u32 flags;
 __u32 cpu;
 __u32 batch_size;
};
#define bpf_test_run_opts__last_field batch_size

LIBBPF_API int bpf_prog_test_run_opts(int prog_fd,
         struct bpf_test_run_opts *opts);

struct bpf_token_create_opts {
 size_t sz; /* size of this struct for forward/backward compatibility */
 __u32 flags;
 size_t :0;
};
#define bpf_token_create_opts__last_field flags

/**
* @brief **bpf_token_create()** creates a new instance of BPF token derived
* from specified BPF FS mount point.
*
* BPF token created with this API can be passed to bpf() syscall for
* commands like BPF_PROG_LOAD,
 BPF_MAP_CREATE, etc.
*
* @param bpffs_fd FD for BPF FS instance from which to derive a BPF token
* instance.
* @param opts optional BPF token creation options, can be NULL
*
* @return BPF token FD > 0, on success; negative error code, otherwise (errno
* is also set to the error code)
*/
LIBBPF_API int bpf_token_create(int bpffs_fd,
    struct bpf_token_create_opts *opts);
```

```
#ifdef __cplusplus
} /* extern "C" */
#endif

#endif /* __LIBBPF_BPF_H */
/* This is auto-generated file. See bpf_doc.py for details. */

/* Forward declarations of BPF structs */
struct bpf_fib_lookup;
struct bpf_sk_lookup;
struct bpf_perf_event_data;
struct bpf_perf_event_value;
struct bpf_pidns_info;
struct bpf_redir_neigh;
struct bpf_sock;
struct bpf_sock_addr;
struct bpf_sock_ops;
struct bpf_sock_tuple;
struct bpf_spin_lock;
struct bpf_sysctl;
struct bpf_tcp_sock;
struct bpf_tunnel_key;
struct bpf_xfrm_state;
struct linux_binprm;
struct pt_regs;
struct sk_reuseport_md;
struct sockaddr;
struct tcphdr;
struct seq_file;
struct tcp6_sock;
struct tcp_sock;
struct tcp_timewait_sock;
struct tcp_request_sock;
struct udp6_sock;
struct unix_sock;
struct task_struct;
struct cgroup;
struct __sk_buff;
struct sk_msg_md;
struct xdp_md;
struct path;
struct btf_ptr;
struct inode;
struct socket;
struct file;
struct bpf_timer;
struct mptcp_sock;
struct bpf_dynptr;
```

```
struct iphdr;
struct ipv6hdr;

/*
* bpf_map_lookup_elem
*
*  Perform a lookup in *map* for an entry associated
 to *key*.
*
* Returns
*  Map value associated to *key*, or **NULL** if no entry was
*  found.
*/
static void *(* const bpf_map_lookup_elem)(void *map, const void *key) = (void *) 1;

/*
* bpf_map_update_elem
*
*  Add or update the value of the entry associated to *key* in
*  *map* with *value*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
*
*  Flag value **BPF_NOEXIST** cannot be used for maps of types
*  **BPF_MAP_TYPE_ARRAY** or **BPF_MAP_TYPE_PERCPU_ARRAY**  (all
*  elements always exist), the helper would return an error.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_update_elem)(void *map, const void *key, const void *value, __u64 flags) = (void *)
2;

/*
* bpf_map_delete_elem
*
*  Delete entry with *key* from
 *map*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_delete_elem)(void *map, const void *key) = (void *) 3;
```

```
/*
* bpf_probe_read
*
*  For tracing programs, safely attempt to read *size* bytes from
*  kernel space address *unsafe_ptr* and store the data in *dst*.
*
*  Generally, use **bpf_probe_read_user**\ () or
*  **bpf_probe_read_kernel**\ () instead.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_read)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 4;

/*
* bpf_ktime_get_ns
*
*  Return the time elapsed since system boot, in nanoseconds.
*  Does not include time the system was suspended.
*  See: **clock_gettime**\ (**CLOCK_MONOTONIC**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_ns)(void) = (void *) 5;

/*
* bpf_trace_printk
*
*  This helper is a "printk()-like" facility for debugging. It
*  prints a message
 defined by format *fmt* (of size *fmt_size*)
*  to file *\/sys/kernel/tracing/trace* from TraceFS, if
*  available. It can take up to three additional **u64**
*  arguments (as an eBPF helpers, the total number of arguments is
*  limited to five).
*
*  Each time the helper is called, it appends a line to the trace.
*  Lines are discarded while *\/sys/kernel/tracing/trace* is
*  open, use *\/sys/kernel/tracing/trace_pipe* to avoid this.
*  The format of the trace is customizable, and the exact output
*  one will get depends on the options set in
*  *\/sys/kernel/tracing/trace_options* (see also the
*  *README* file under the same directory). However, it usually
*  defaults to something like:
*
*  ::
```

```
*
*   telnet-470   [001] .N.. 419421.045894: 0x00000001: <formatted msg>
*
*  In the above:
*
*   * ``telnet`` is the name of the current task.
*   * ``470`` is the PID of the current task.
*   * ``001`` is the CPU number on which the task is
*     running.
*   * In
 ``.N..``, each character refers to a set of
*     options (whether irqs are enabled, scheduling
*     options, whether hard/softirqs are running, level of
*     preempt_disabled respectively). **N** means that
*     **TIF_NEED_RESCHED** and **PREEMPT_NEED_RESCHED**
*     are set.
*   * ``419421.045894`` is a timestamp.
*   * ``0x00000001`` is a fake value used by BPF for the
*     instruction pointer register.
*   * ``<formatted msg>`` is the message formatted with
*     *fmt*.
*
*  The conversion specifiers supported by *fmt* are similar, but
*  more limited than for printk(). They are **%d**, **%i**,
*  **%u**, **%x**, **%ld**, **%li**, **%lu**, **%lx**, **%lld**,
*  **%lli**, **%llu**, **%llx**, **%p**, **%s**. No modifier (size
*  of field, padding with zeroes, etc.) is available, and the
*  helper will return **-EINVAL** (but print nothing) if it
*  encounters an unknown specifier.
*
*  Also, note that **bpf_trace_printk**\ () is slow, and should
*  only be used
 for debugging purposes. For this reason, a notice
*  block (spanning several lines) is printed to kernel logs and
*  states that the helper should not be used "for production use"
*  the first time this helper is used (or more precisely, when
*  **trace_printk**\ () buffers are allocated). For passing values
*  to user space, perf events should be preferred.
*
* Returns
*  The number of bytes written to the buffer, or a negative error
*  in case of failure.
*/
static long (* const bpf_trace_printk)(const char *fmt, __u32 fmt_size, ...) = (void *) 6;

/*
* bpf_get_prandom_u32
*
```

```
*  Get a pseudo-random number.
*
*  From a security point of view, this helper uses its own
*  pseudo-random internal state, and cannot be used to infer the
*  seed of other random functions in the kernel. However, it is
*  essential to note that the generator used by the helper is not
*  cryptographically secure.
*
* Returns
*  A random 32-bit unsigned value.
*/
static __u32 (* const bpf_get_prandom_u32)(void)
 = (void *) 7;

/*
* bpf_get_smp_processor_id
*
*  Get the SMP (symmetric multiprocessing) processor id. Note that
*  all programs run with migration disabled, which means that the
*  SMP processor id is stable during all the execution of the
*  program.
*
* Returns
*  The SMP id of the processor running the program.
*/
static __u32 (* const bpf_get_smp_processor_id)(void) = (void *) 8;

/*
* bpf_skb_store_bytes
*
*  Store *len* bytes from address *from* into the packet
*  associated to *skb*, at *offset*. *flags* are a combination of
*  **BPF_F_RECOMPUTE_CSUM** (automatically recompute the
*  checksum for the packet after storing the bytes) and
*  **BPF_F_INVALIDATE_HASH** (set *skb*\ **->hash**, *skb*\
*  **->swhash** and *skb*\ **->l4hash** to 0).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must
 be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_store_bytes)(struct __sk_buff *skb, __u32 offset, const void *from, __u32 len, __u64
```

```
flags) = (void *) 9;

/*
* bpf_l3_csum_replace
*
*  Recompute the layer 3 (e.g. IP) checksum for the packet
*  associated to *skb*. Computation is incremental, so the helper
*  must know the former value of the header field that was
*  modified (*from*), the new value of this field (*to*), and the
*  number of bytes (2 or 4) for this field, stored in *size*.
*  Alternatively, it is possible to store the difference between
*  the previous and the new values of the header field in *to*, by
*  setting *from* and *size* to 0. For both methods, *offset*
*  indicates the location of the IP checksum within the packet.
*
*  This helper works in combination with **bpf_csum_diff**\ (),
*  which does not update
 the checksum in-place, but offers more
*  flexibility and can handle sizes larger than 2 or 4 for the
*  checksum to update.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_l3_csum_replace)(struct __sk_buff *skb, __u32 offset, __u64 from, __u64 to, __u64 size) =
(void *) 10;

/*
* bpf_l4_csum_replace
*
*  Recompute the layer 4 (e.g. TCP, UDP or ICMP) checksum for the
*  packet associated to *skb*. Computation is incremental, so the
*  helper must know the former value of the header field that was
*  modified (*from*), the new value of this field (*to*), and the
*  number of bytes (2 or 4) for this field, stored on the lowest
*  four bits
 of *flags*. Alternatively, it is possible to store
*  the difference between the previous and the new values of the
*  header field in *to*, by setting *from* and the four lowest
*  bits of *flags* to 0. For both methods, *offset* indicates the
*  location of the IP checksum within the packet. In addition to
*  the size of the field, *flags* can be added (bitwise OR) actual
```

```
*  flags. With **BPF_F_MARK_MANGLED_0**, a null checksum is left
*  untouched (unless **BPF_F_MARK_ENFORCE** is added as well), and
*  for updates resulting in a null checksum the value is set to
*  **CSUM_MANGLED_0** instead. Flag **BPF_F_PSEUDO_HDR** indicates
*  the checksum is to be computed against a pseudo-header.
*
*  This helper works in combination with **bpf_csum_diff**\ (),
*  which does not update the checksum in-place, but offers more
*  flexibility and can handle sizes larger than 2 or 4 for the
*  checksum to update.
*
*  A call to this helper is susceptible to change the underlying
 *  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_l4_csum_replace)(struct __sk_buff *skb, __u32 offset, __u64 from, __u64 to, __u64 flags)
= (void *) 11;

/*
* bpf_tail_call
*
*  This special helper is used to trigger a "tail call", or in
*  other words, to jump into another eBPF program. The same stack
*  frame is used (but values on stack and in registers for the
*  caller are not accessible to the callee). This mechanism allows
*  for program chaining, either for raising the maximum number of
*  available eBPF instructions, or to execute given programs in
*  conditional blocks. For security reasons, there is an upper
*  limit to the number of successive tail calls that can be
*  performed.
*
*  Upon call
 of this helper, the program attempts to jump into a
*  program referenced at index *index* in *prog_array_map*, a
*  special map of type **BPF_MAP_TYPE_PROG_ARRAY**, and passes
*  *ctx*, a pointer to the context.
*
*  If the call succeeds, the kernel immediately runs the first
*  instruction of the new program. This is not a function call,
*  and it never returns to the previous program. If the call
*  fails, then the helper has no effect, and the caller continues
*  to run its subsequent instructions. A call can fail if the
*  destination program for the jump does not exist (i.e. *index*
```

```
*  is superior to the number of entries in *prog_array_map*), or
*  if the maximum number of tail calls has been reached for this
*  chain of programs. This limit is defined in the kernel by the
*  macro **MAX_TAIL_CALL_CNT** (not accessible to user space),
*  which is currently set to 33.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const
 bpf_tail_call)(void *ctx, void *prog_array_map, __u32 index) = (void *) 12;

/*
* bpf_clone_redirect
*
*  Clone and redirect the packet associated to *skb* to another
*  net device of index *ifindex*. Both ingress and egress
*  interfaces can be used for redirection. The **BPF_F_INGRESS**
*  value in *flags* is used to make the distinction (ingress path
*  is selected if the flag is present, egress path otherwise).
*  This is the only flag supported for now.
*
*  In comparison with **bpf_redirect**\ () helper,
*  **bpf_clone_redirect**\ () has the associated cost of
*  duplicating the packet buffer, but this can be executed out of
*  the eBPF program. Conversely, **bpf_redirect**\ () is more
*  efficient, but it is handled through an action code where the
*  redirection happens only after the eBPF program has returned.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously
 done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure. Positive
*  error indicates a potential drop or congestion in the target
*  device. The particular positive error codes are not defined.
*/
static long (* const bpf_clone_redirect)(struct __sk_buff *skb, __u32 ifindex, __u64 flags) = (void *) 13;

/*
* bpf_get_current_pid_tgid
*
*  Get the current pid and tgid.
*
```

```
* Returns
*  A 64-bit integer containing the current tgid and pid, and
*  created as such:
*  *current_task*\ **->tgid << 32 \|**
*  *current_task*\ **->pid**.
*/
static __u64 (* const bpf_get_current_pid_tgid)(void) = (void *) 14;

/*
* bpf_get_current_uid_gid
*
*  Get the current uid and gid.
*
* Returns
*  A 64-bit integer containing the current GID and UID, and
*  created as such: *current_gid* **<< 32 \|** *current_uid*.
*/
static __u64 (* const
 bpf_get_current_uid_gid)(void) = (void *) 15;

/*
* bpf_get_current_comm
*
*  Copy the **comm** attribute of the current task into *buf* of
*  *size_of_buf*. The **comm** attribute contains the name of
*  the executable (excluding the path) for the current task. The
*  *size_of_buf* must be strictly positive. On success, the
*  helper makes sure that the *buf* is NUL-terminated. On failure,
*  it is filled with zeroes.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_get_current_comm)(void *buf, __u32 size_of_buf) = (void *) 16;

/*
* bpf_get_cgroup_classid
*
*  Retrieve the classid for the current task, i.e. for the net_cls
*  cgroup to which *skb* belongs.
*
*  This helper can be used on TC egress path, but not on ingress.
*
*  The net_cls cgroup provides an interface to tag network packets
*  based on a user-provided identifier for all traffic coming from
*  the tasks belonging to the related cgroup. See also the
 related
*  kernel documentation, available from the Linux sources in file
```

```
*  *Documentation/admin-guide/cgroup-v1/net_cls.rst*.
*
*  The Linux kernel has two versions for cgroups: there are
*  cgroups v1 and cgroups v2. Both are available to users, who can
*  use a mixture of them, but note that the net_cls cgroup is for
*  cgroup v1 only. This makes it incompatible with BPF programs
*  run on cgroups, which is a cgroup-v2-only feature (a socket can
*  only hold data for one version of cgroups at a time).
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_CGROUP_NET_CLASSID** configuration option set to
*  "**y**" or to "**m**".
*
* Returns
*  The classid, or 0 for the default unconfigured classid.
*/
static __u32 (* const bpf_get_cgroup_classid)(struct __sk_buff *skb) = (void *) 17;

/*
* bpf_skb_vlan_push
*
*  Push a *vlan_tci* (VLAN tag control information) of protocol
*  *vlan_proto* to the packet associated to *skb*, then update
 *  the checksum. Note that if *vlan_proto* is different from
*  **ETH_P_8021Q** and **ETH_P_8021AD**, it is considered to
*  be **ETH_P_8021Q**.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_vlan_push)(struct __sk_buff *skb, __be16 vlan_proto, __u16 vlan_tci) = (void *) 18;

/*
* bpf_skb_vlan_pop
*
*  Pop a VLAN header from the packet associated to *skb*.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
```

```
 *
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_vlan_pop)(struct __sk_buff *skb) = (void *) 19;

/*
* bpf_skb_get_tunnel_key
*
*  Get tunnel metadata. This helper takes a pointer *key* to an
*  empty **struct bpf_tunnel_key** of **size**, that will be
*  filled with tunnel metadata for the packet associated to *skb*.
*  The *flags* can be set to **BPF_F_TUNINFO_IPV6**, which
*  indicates that the tunnel is based on IPv6 protocol instead of
*  IPv4.
*
*  The **struct bpf_tunnel_key** is an object that generalizes the
*  principal parameters used by various tunneling protocols into a
*  single struct. This way, it can be used to easily make a
*  decision based on the contents of the encapsulation header,
*  "summarized" in this struct. In particular, it holds the IP
*  address of the remote end (IPv4 or IPv6, depending on the case)
*  in *key*\ **->remote_ipv4** or *key*\ **->remote_ipv6**. Also,
*  this struct
 exposes the *key*\ **->tunnel_id**, which is
*  generally mapped to a VNI (Virtual Network Identifier), making
*  it programmable together with the **bpf_skb_set_tunnel_key**\
*  () helper.
*
*  Let's imagine that the following code is part of a program
*  attached to the TC ingress interface, on one end of a GRE
*  tunnel, and is supposed to filter out all messages coming from
*  remote ends with IPv4 address other than 10.0.0.1:
*
*  ::
*
*   int ret;
*   struct bpf_tunnel_key key = {};
*
*   ret = bpf_skb_get_tunnel_key(skb, &key, sizeof(key), 0);
*   if (ret < 0)
*    return TC_ACT_SHOT; // drop packet
*
*   if (key.remote_ipv4 != 0x0a000001)
*    return TC_ACT_SHOT; // drop packet
*
*   return TC_ACT_OK;  // accept packet
*
```

```
*  This interface can also be used with all encapsulation devices
*  that can operate in "collect metadata" mode: instead of having
*  one network device per specific configuration, the "collect
*  metadata" mode only requires a single
 device where the
*  configuration can be extracted from this helper.
*
*  This can be used together with various tunnels such as VXLan,
*  Geneve, GRE or IP in IP (IPIP).
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_get_tunnel_key)(struct __sk_buff *skb, struct bpf_tunnel_key *key, __u32 size, __u64
flags) = (void *) 20;

/*
* bpf_skb_set_tunnel_key
*
*  Populate tunnel metadata for packet associated to *skb.* The
*  tunnel metadata is set to the contents of *key*, of *size*. The
*  *flags* can be set to a combination of the following values:
*
*  **BPF_F_TUNINFO_IPV6**
*   Indicate that the tunnel is based on IPv6 protocol
*   instead of IPv4.
*  **BPF_F_ZERO_CSUM_TX**
*   For IPv4 packets, add a flag to tunnel metadata
*   indicating that checksum computation should be skipped
*   and checksum set to zeroes.
*  **BPF_F_DONT_FRAGMENT**
*   Add a flag to tunnel metadata indicating that the
*   packet should
 not be fragmented.
*  **BPF_F_SEQ_NUMBER**
*   Add a flag to tunnel metadata indicating that a
*   sequence number should be added to tunnel header before
*   sending the packet. This flag was added for GRE
*   encapsulation, but might be used with other protocols
*   as well in the future.
*  **BPF_F_NO_TUNNEL_KEY**
*   Add a flag to tunnel metadata indicating that no tunnel
*   key should be set in the resulting tunnel header.
*
*  Here is a typical usage on the transmit path:
*
*  ::
*
```

```
*   struct bpf_tunnel_key key;
*       populate key ...
*   bpf_skb_set_tunnel_key(skb, &key, sizeof(key), 0);
*   bpf_clone_redirect(skb, vxlan_dev_ifindex, 0);
*
*  See also the description of the **bpf_skb_get_tunnel_key**\ ()
*  helper for additional information.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_set_tunnel_key)(struct __sk_buff *skb, struct bpf_tunnel_key *key, __u32 size, __u64
flags) = (void *) 21;

/*
 * bpf_perf_event_read
*
*  Read the value of a perf event counter. This helper relies on a
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. The nature of
*  the perf event counter is selected when *map* is updated with
*  perf event file descriptors. The *map* is an array whose size
*  is the number of available CPUs, and each cell contains a value
*  relative to one CPU. The value to retrieve is indicated by
*  *flags*, that contains the index of the CPU to look up, masked
*  with **BPF_F_INDEX_MASK**. Alternatively, *flags* can be set to
*  **BPF_F_CURRENT_CPU** to indicate that the value for the
*  current CPU should be retrieved.
*
*  Note that before Linux 4.13, only hardware perf event can be
*  retrieved.
*
*  Also, be aware that the newer helper
*  **bpf_perf_event_read_value**\ () is recommended over
*  **bpf_perf_event_read**\ () in general. The latter has some ABI
*  quirks where error and counter value are used as a return code
*  (which is wrong
 to do since ranges may overlap). This issue is
*  fixed with **bpf_perf_event_read_value**\ (), which at the same
*  time provides more features over the **bpf_perf_event_read**\
*  () interface. Please refer to the description of
*  **bpf_perf_event_read_value**\ () for details.
*
* Returns
*  The value of the perf event counter read from the map, or a
*  negative error code in case of failure.
*/
static __u64 (* const bpf_perf_event_read)(void *map, __u64 flags) = (void *) 22;
```

```
/*
* bpf_redirect
*
*  Redirect the packet to another net device of index *ifindex*.
*  This helper is somewhat similar to **bpf_clone_redirect**\
*  (), except that the packet is not cloned, which provides
*  increased performance.
*
*  Except for XDP, both ingress and egress interfaces can be used
*  for redirection. The **BPF_F_INGRESS** value in *flags* is used
*  to make the distinction (ingress path is selected if the flag
*  is present, egress path otherwise). Currently, XDP only
*
  supports redirection to the egress interface, and accepts no
*  flag at all.
*
*  The same effect can also be attained with the more generic
*  **bpf_redirect_map**\ (), which uses a BPF map to store the
*  redirect target instead of providing it directly to the helper.
*
* Returns
*  For XDP, the helper returns **XDP_REDIRECT** on success or
*  **XDP_ABORTED** on error. For other program types, the values
*  are **TC_ACT_REDIRECT** on success or **TC_ACT_SHOT** on
*  error.
*/
static long (* const bpf_redirect)(__u32 ifindex, __u64 flags) = (void *) 23;

/*
* bpf_get_route_realm
*
*  Retrieve the realm or the route, that is to say the
*  **tclassid** field of the destination for the *skb*. The
*  identifier retrieved is a user-provided tag, similar to the
*  one used with the net_cls cgroup (see description for
*  **bpf_get_cgroup_classid**\ () helper), but here this tag is
*  held by a route (a destination entry), not by a task.
*
*  Retrieving this identifier
 works with the clsact TC egress hook
*  (see also **tc-bpf(8)**), or alternatively on conventional
*  classful egress qdiscs, but not on TC ingress path. In case of
*  clsact TC egress hook, this has the advantage that, internally,
*  the destination entry has not been dropped yet in the transmit
*  path. Therefore, the destination entry does not need to be
*  artificially held via **netif_keep_dst**\ () for a classful
*  qdisc until the *skb* is freed.
*
```

```
*  This helper is available only if the kernel was compiled with
*  **CONFIG_IP_ROUTE_CLASSID** configuration option.
*
* Returns
*  The realm of the route for the packet associated to *skb*, or 0
*  if none was found.
*/
static __u32 (* const bpf_get_route_realm)(struct __sk_buff *skb) = (void *) 24;

/*
* bpf_perf_event_output
*
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following attributes: **PERF_SAMPLE_RAW**
 *  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
*  The context of the program *ctx* needs also be passed to the
*  helper.
*
*  On user space, a program willing to read the values needs to
*  call **perf_event_open**\ () on the perf event (either for
*  one or for all CPUs) and to store the file descriptor into the
*  *map*. This must be done before the eBPF program can send data
*  into it. An example is available in file
*  *samples/bpf/trace_output_user.c* in the Linux kernel source
*  tree (the eBPF program counterpart is in
*  *samples/bpf/trace_output_kern.c*).
 *
*  **bpf_perf_event_output**\ () achieves better performance
*  than **bpf_trace_printk**\ () for sharing data with user
*  space, and is much better suitable for streaming data from eBPF
*  programs.
*
*  Note that this helper is not restricted to tracing use cases
*  and can be used with programs attached to TC or XDP as well,
*  where it allows for passing data to user space listeners. Data
*  can be:
```

```
*
*  * Only custom structs,
*  * Only the packet payload, or
*  * A combination of both.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_perf_event_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *)
25;

/*
* bpf_skb_load_bytes
*
*  This helper was provided as an easy way to load data from a
*  packet. It can be used to load *len* bytes from *offset* from
*  the packet associated to *skb*, into the buffer pointed by
*  *to*.
*
*  Since Linux 4.7, usage of this helper
 has mostly been replaced
*  by "direct packet access", enabling packet data to be
*  manipulated with *skb*\ **->data** and *skb*\ **->data_end**
*  pointing respectively to the first byte of packet data and to
*  the byte after the last byte of packet data. However, it
*  remains useful if one wishes to read large quantities of data
*  at once from a packet into the eBPF stack.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_load_bytes)(const void *skb, __u32 offset, void *to, __u32 len) = (void *) 26;

/*
* bpf_get_stackid
*
*  Walk a user or a kernel stack and return its id. To achieve
*  this, the helper needs *ctx*, which is a pointer to the context
*  on which the tracing program is executed, and a pointer to a
*  *map* of type **BPF_MAP_TYPE_STACK_TRACE**.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can
 be used to set
*  a combination of the following flags:
*
*  **BPF_F_USER_STACK**
```

```
*   Collect a user space stack instead of a kernel stack.
*  **BPF_F_FAST_STACK_CMP**
*   Compare stacks by hash only.
*  **BPF_F_REUSE_STACKID**
*   If two different stacks hash into the same *stackid*,
*   discard the old one.
*
*  The stack id retrieved is a 32 bit long integer handle which
*  can be further combined with other data (including other stack
*  ids) and used as a key into maps. This can be useful for
*  generating a variety of graphs (such as flame graphs or off-cpu
*  graphs).
*
*  For walking a stack, this helper is an improvement over
*  **bpf_probe_read**\ (), which can be used with unrolled loops
*  but is not efficient and consumes a lot of eBPF instructions.
*  Instead, **bpf_get_stackid**\ () can collect up to
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should
 be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
* Returns
*  The positive or null stack id on success, or a negative error
*  in case of failure.
*/
static long (* const bpf_get_stackid)(void *ctx, void *map, __u64 flags) = (void *) 27;

/*
* bpf_csum_diff
*
*  Compute a checksum difference, from the raw buffer pointed by
*  *from*, of length *from_size* (that must be a multiple of 4),
*  towards the raw buffer pointed by *to*, of size *to_size*
*  (same remark). An optional *seed* can be added to the value
*  (this can be cascaded, the seed may come from a previous call
*  to the helper).
*
*  This is flexible enough to be used in several ways:
*
*  * With *from_size* == 0, *to_size* > 0 and *seed* set to
*    checksum, it can be used when pushing new data.
*  * With *from_size* > 0, *to_size* == 0 and *seed* set to
```

```
*    checksum,
 it can be used when removing data from a packet.
*  * With *from_size* > 0, *to_size* > 0 and *seed* set to 0, it
*    can be used to compute a diff. Note that *from_size* and
*    *to_size* do not need to be equal.
*
*  This helper can be used in combination with
*  **bpf_l3_csum_replace**\ () and **bpf_l4_csum_replace**\ (), to
*  which one can feed in the difference computed with
*  **bpf_csum_diff**\ ().
*
* Returns
*  The checksum result, or a negative error code in case of
*  failure.
*/
static __s64 (* const bpf_csum_diff)(__be32 *from, __u32 from_size, __be32 *to, __u32 to_size, __wsum seed) =
(void *) 28;

/*
* bpf_skb_get_tunnel_opt
*
*  Retrieve tunnel options metadata for the packet associated to
*  *skb*, and store the raw tunnel option data to the buffer *opt*
*  of *size*.
*
*  This helper can be used with encapsulation devices that can
*  operate in "collect metadata" mode (please refer to the related
*  note in the description of **bpf_skb_get_tunnel_key**\
 () for
*  more details). A particular example where this can be used is
*  in combination with the Geneve encapsulation protocol, where it
*  allows for pushing (with **bpf_skb_get_tunnel_opt**\ () helper)
*  and retrieving arbitrary TLVs (Type-Length-Value headers) from
*  the eBPF program. This allows for full customization of these
*  headers.
*
* Returns
*  The size of the option data retrieved.
*/
static long (* const bpf_skb_get_tunnel_opt)(struct __sk_buff *skb, void *opt, __u32 size) = (void *) 29;

/*
* bpf_skb_set_tunnel_opt
*
*  Set tunnel options metadata for the packet associated to *skb*
*  to the option data contained in the raw buffer *opt* of *size*.
*
*  See also the description of the **bpf_skb_get_tunnel_opt**\ ()
```

```
*  helper for additional information.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_set_tunnel_opt)(struct __sk_buff *skb, void *opt, __u32 size) = (void *) 30;

/*
*
 bpf_skb_change_proto
*
*  Change the protocol of the *skb* to *proto*. Currently
*  supported are transition from IPv4 to IPv6, and from IPv6 to
*  IPv4. The helper takes care of the groundwork for the
*  transition, including resizing the socket buffer. The eBPF
*  program is expected to fill the new headers, if any, via
*  **skb_store_bytes**\ () and to recompute the checksums with
*  **bpf_l3_csum_replace**\ () and **bpf_l4_csum_replace**\
*  (). The main case for this helper is to perform NAT64
*  operations out of an eBPF program.
*
*  Internally, the GSO type is marked as dodgy so that headers are
*  checked and segments are recalculated by the GSO/GRO engine.
*  The size for GSO target is adapted as well.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are
 invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_proto)(struct __sk_buff *skb, __be16 proto, __u64 flags) = (void *) 31;

/*
* bpf_skb_change_type
*
*  Change the packet type for the packet associated to *skb*. This
*  comes down to setting *skb*\ **->pkt_type** to *type*, except
*  the eBPF program does not have a write access to *skb*\
*  **->pkt_type** beside this helper. Using a helper here allows
*  for graceful handling of errors.
```

```
*
*  The major use case is to change incoming *skb*s to
*  **PACKET_HOST** in a programmatic way instead of having to
*  recirculate via **redirect**\ (..., **BPF_F_INGRESS**), for
*  example.
*
*  Note that *type* only allows certain values. At this time, they
*  are:
*
*  **PACKET_HOST**
*   Packet is for us.
*  **PACKET_BROADCAST**
*   Send packet to all.
 *  **PACKET_MULTICAST**
*   Send packet to group.
*  **PACKET_OTHERHOST**
*   Send packet to someone else.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_type)(struct __sk_buff *skb, __u32 type) = (void *) 32;

/*
* bpf_skb_under_cgroup
*
*  Check whether *skb* is a descendant of the cgroup2 held by
*  *map* of type **BPF_MAP_TYPE_CGROUP_ARRAY**, at *index*.
*
* Returns
*  The return value depends on the result of the test, and can be:
*
*  * 0, if the *skb* failed the cgroup2 descendant test.
*  * 1, if the *skb* succeeded the cgroup2 descendant test.
*  * A negative error code, if an error occurred.
*/
static long (* const bpf_skb_under_cgroup)(struct __sk_buff *skb, void *map, __u32 index) = (void *) 33;

/*
* bpf_get_hash_recalc
*
*  Retrieve the hash of the packet, *skb*\ **->hash**. If it is
*  not set, in particular if the hash was cleared due to mangling,
*  recompute this hash. Later accesses
 to the hash can be done
*  directly with *skb*\ **->hash**.
*
*  Calling **bpf_set_hash_invalid**\ (), changing a packet
```

```
*  prototype with **bpf_skb_change_proto**\ (), or calling
*  **bpf_skb_store_bytes**\ () with the
*  **BPF_F_INVALIDATE_HASH** are actions susceptible to clear
*  the hash and to trigger a new computation for the next call to
*  **bpf_get_hash_recalc**\ ().
*
* Returns
*  The 32-bit hash.
*/
static __u32 (* const bpf_get_hash_recalc)(struct __sk_buff *skb) = (void *) 34;

/*
* bpf_get_current_task
*
*  Get the current task.
*
* Returns
*  A pointer to the current task struct.
*/
static __u64 (* const bpf_get_current_task)(void) = (void *) 35;

/*
* bpf_probe_write_user
*
*  Attempt in a safe way to write *len* bytes from the buffer
*  *src* to *dst* in memory. It only works for threads that are in
*  user context, and *dst* must be a valid user space address.
*
*  This helper should not be used to implement any kind of
*  security mechanism
 because of TOC-TOU attacks, but rather to
*  debug, divert, and manipulate execution of semi-cooperative
*  processes.
*
*  Keep in mind that this feature is meant for experiments, and it
*  has a risk of crashing the system and running programs.
*  Therefore, when an eBPF program using this helper is attached,
*  a warning including PID and process name is printed to kernel
*  logs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_write_user)(void *dst, const void *src, __u32 len) = (void *) 36;

/*
* bpf_current_task_under_cgroup
*
```

```
*  Check whether the probe is being run is the context of a given
*  subset of the cgroup2 hierarchy. The cgroup2 to test is held by
*  *map* of type **BPF_MAP_TYPE_CGROUP_ARRAY**, at *index*.
*
* Returns
*  The return value depends on the result of the test, and can be:
*
*  * 1, if current task belongs to the cgroup2.
*  * 0, if current task does not belong to the cgroup2.
 *  * A negative error code, if an error occurred.
*/
static long (* const bpf_current_task_under_cgroup)(void *map, __u32 index) = (void *) 37;

/*
* bpf_skb_change_tail
*
*  Resize (trim or grow) the packet associated to *skb* to the
*  new *len*. The *flags* are reserved for future usage, and must
*  be left at zero.
*
*  The basic idea is that the helper performs the needed work to
*  change the size of the packet, then the eBPF program rewrites
*  the rest via helpers like **bpf_skb_store_bytes**\ (),
*  **bpf_l3_csum_replace**\ (), **bpf_l3_csum_replace**\ ()
*  and others. This helper is a slow path utility intended for
*  replies with control messages. And because it is targeted for
*  slow path, the helper itself can afford to be slow: it
*  implicitly linearizes, unclones and drops offloads from the
*  *skb*.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done
 by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_tail)(struct __sk_buff *skb, __u32 len, __u64 flags) = (void *) 38;

/*
* bpf_skb_pull_data
*
*  Pull in non-linear data in case the *skb* is non-linear and not
*  all of *len* are part of the linear section. Make *len* bytes
*  from *skb* readable and writable. If a zero value is passed for
```

```
*  *len*, then all bytes in the linear part of *skb* will be made
*  readable and writable.
*
*  This helper is only needed for reading and writing with direct
*  packet access.
*
*  For direct packet access, testing that offsets to access
*  are within packet boundaries (test on *skb*\ **->data_end**) is
*  susceptible to fail if offsets are invalid, or if the requested
*  data is in non-linear parts of the *skb*. On failure the
*  program
 can just bail out, or in the case of a non-linear
*  buffer, use a helper to make the data available. The
*  **bpf_skb_load_bytes**\ () helper is a first solution to access
*  the data. Another one consists in using **bpf_skb_pull_data**
*  to pull in once the non-linear parts, then retesting and
*  eventually access the data.
*
*  At the same time, this also makes sure the *skb* is uncloned,
*  which is a necessary condition for direct write. As this needs
*  to be an invariant for the write part only, the verifier
*  detects writes and adds a prologue that is calling
*  **bpf_skb_pull_data()** to effectively unclone the *skb* from
*  the very beginning in case it is indeed cloned.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
*
 Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_pull_data)(struct __sk_buff *skb, __u32 len) = (void *) 39;

/*
* bpf_csum_update
*
*  Add the checksum *csum* into *skb*\ **->csum** in case the
*  driver has supplied a checksum for the entire packet into that
*  field. Return an error otherwise. This helper is intended to be
*  used in combination with **bpf_csum_diff**\ (), in particular
*  when the checksum needs to be updated after data has been
*  written into the packet through direct packet access.
*
* Returns
```

```
*  The checksum on success, or a negative error code in case of
*  failure.
*/
static __s64 (* const bpf_csum_update)(struct __sk_buff *skb, __wsum csum) = (void *) 40;

/*
* bpf_set_hash_invalid
*
*  Invalidate the current *skb*\ **->hash**. It can be used after
*  mangling on headers through direct packet access, in order to
*  indicate that the hash is outdated and to trigger a
*  recalculation the next
 time the kernel tries to access this
*  hash or when the **bpf_get_hash_recalc**\ () helper is called.
*
* Returns
*  void.
*/
static void (* const bpf_set_hash_invalid)(struct __sk_buff *skb) = (void *) 41;

/*
* bpf_get_numa_node_id
*
*  Return the id of the current NUMA node. The primary use case
*  for this helper is the selection of sockets for the local NUMA
*  node, when the program is attached to sockets using the
*  **SO_ATTACH_REUSEPORT_EBPF** option (see also **socket(7)**),
*  but the helper is also available to other eBPF program types,
*  similarly to **bpf_get_smp_processor_id**\ ().
*
* Returns
*  The id of current NUMA node.
*/
static long (* const bpf_get_numa_node_id)(void) = (void *) 42;

/*
* bpf_skb_change_head
*
*  Grows headroom of packet associated to *skb* and adjusts the
*  offset of the MAC header accordingly, adding *len* bytes of
*  space. It automatically extends and reallocates memory as
*  required.
*
*  This helper can be used
 on a layer 3 *skb* to push a MAC header
*  for redirection into a layer 2 device.
*
*  All values for *flags* are reserved for future usage, and must
```

```
*  be left at zero.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_change_head)(struct __sk_buff *skb, __u32 len, __u64 flags) = (void *) 43;

/*
* bpf_xdp_adjust_head
*
*  Adjust (move) *xdp_md*\ **->data** by *delta* bytes. Note that
*  it is possible to use a negative value for *delta*. This helper
*  can be used to prepare the packet for pushing or popping
*  headers.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all
 checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_head)(struct xdp_md *xdp_md, int delta) = (void *) 44;

/*
* bpf_probe_read_str
*
*  Copy a NUL terminated string from an unsafe kernel address
*  *unsafe_ptr* to *dst*. See **bpf_probe_read_kernel_str**\ () for
*  more details.
*
*  Generally, use **bpf_probe_read_user_str**\ () or
*  **bpf_probe_read_kernel_str**\ () instead.
*
* Returns
*  On success, the strictly positive length of the string,
*  including the trailing NUL character. On error, a negative
*  value.
*/
```

```
static long (* const bpf_probe_read_str)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 45;

/*
* bpf_get_socket_cookie
*
*  If the **struct sk_buff** pointed by *skb* has a known socket,
*  retrieve the cookie
 (generated by the kernel) of this socket.
*  If no cookie has been set yet, generate a new cookie. Once
*  generated, the socket cookie remains stable for the life of the
*  socket. This helper can be useful for monitoring per socket
*  networking traffic statistics as it provides a global socket
*  identifier that can be assumed unique.
*
* Returns
*  A 8-byte long unique number on success, or 0 if the socket
*  field is missing inside *skb*.
*/
static __u64 (* const bpf_get_socket_cookie)(void *ctx) = (void *) 46;

/*
* bpf_get_socket_uid
*
*  Get the owner UID of the socked associated to *skb*.
*
* Returns
*  The owner UID of the socket associated to *skb*. If the socket
*  is **NULL**, or if it is not a full socket (i.e. if it is a
*  time-wait or a request socket instead), **overflowuid** value
*  is returned (note that **overflowuid** might also be the actual
*  UID value for the socket).
*/
static __u32 (* const bpf_get_socket_uid)(struct __sk_buff *skb) =
 (void *) 47;

/*
* bpf_set_hash
*
*  Set the full hash for *skb* (set the field *skb*\ **->hash**)
*  to value *hash*.
*
* Returns
*  0
*/
static long (* const bpf_set_hash)(struct __sk_buff *skb, __u32 hash) = (void *) 48;

/*
* bpf_setsockopt
```

```
*
*  Emulate a call to **setsockopt()** on the socket associated to
*  *bpf_socket*, which must be a full socket. The *level* at
*  which the option resides and the name *optname* of the option
*  must be specified, see **setsockopt(2)** for more information.
*  The option value of length *optlen* is pointed by *optval*.
*
*  *bpf_socket* should be one of the following:
*
*  * **struct bpf_sock_ops** for **BPF_PROG_TYPE_SOCK_OPS**.
*  * **struct bpf_sock_addr** for **BPF_CGROUP_INET4_CONNECT**,
*    **BPF_CGROUP_INET6_CONNECT** and **BPF_CGROUP_UNIX_CONNECT**.
*
*  This helper actually implements a subset of **setsockopt()**.
*  It supports the following *level*\ s:
*
*  * **SOL_SOCKET**, which supports the following *optname*\
 s:
*    **SO_RCVBUF**, **SO_SNDBUF**, **SO_MAX_PACING_RATE**,
*    **SO_PRIORITY**, **SO_RCVLOWAT**, **SO_MARK**,
*    **SO_BINDTODEVICE**, **SO_KEEPALIVE**, **SO_REUSEADDR**,
*    **SO_REUSEPORT**, **SO_BINDTOIFINDEX**, **SO_TXREHASH**.
*  * **IPPROTO_TCP**, which supports the following *optname*\ s:
*    **TCP_CONGESTION**, **TCP_BPF_IW**,
*    **TCP_BPF_SNDCWND_CLAMP**, **TCP_SAVE_SYN**,
*    **TCP_KEEPIDLE**, **TCP_KEEPINTVL**, **TCP_KEEPCNT**,
*    **TCP_SYNCNT**, **TCP_USER_TIMEOUT**, **TCP_NOTSENT_LOWAT**,
*    **TCP_NODELAY**, **TCP_MAXSEG**, **TCP_WINDOW_CLAMP**,
*    **TCP_THIN_LINEAR_TIMEOUTS**, **TCP_BPF_DELACK_MAX**,
*    **TCP_BPF_RTO_MIN**.
*  * **IPPROTO_IP**, which supports *optname* **IP_TOS**.
*  * **IPPROTO_IPV6**, which supports the following *optname*\ s:
*    **IPV6_TCLASS**, **IPV6_AUTOFLOWLABEL**.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_setsockopt)(void *bpf_socket, int level,
 int optname, void *optval, int optlen) = (void *) 49;

/*
* bpf_skb_adjust_room
*
*  Grow or shrink the room for data in the packet associated to
*  *skb* by *len_diff*, and according to the selected *mode*.
*
*  By default, the helper will reset any offloaded checksum
*  indicator of the skb to CHECKSUM_NONE. This can be avoided
```

```
*  by the following flag:
*
*  * **BPF_F_ADJ_ROOM_NO_CSUM_RESET**: Do not reset offloaded
*    checksum data of the skb to CHECKSUM_NONE.
*
*  There are two supported modes at this time:
*
*  * **BPF_ADJ_ROOM_MAC**: Adjust room at the mac layer
*    (room space is added or removed between the layer 2 and
*    layer 3 headers).
*
*  * **BPF_ADJ_ROOM_NET**: Adjust room at the network layer
*    (room space is added or removed between the layer 3 and
*    layer 4 headers).
*
*  The following flags are supported at this time:
*
*  * **BPF_F_ADJ_ROOM_FIXED_GSO**: Do not adjust gso_size.
*    Adjusting mss in this way is not allowed for datagrams.
 *
*  * **BPF_F_ADJ_ROOM_ENCAP_L3_IPV4**,
*    **BPF_F_ADJ_ROOM_ENCAP_L3_IPV6**:
*    Any new space is reserved to hold a tunnel header.
*    Configure skb offsets and other fields accordingly.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L4_GRE**,
*    **BPF_F_ADJ_ROOM_ENCAP_L4_UDP**:
*    Use with ENCAP_L3 flags to further specify the tunnel type.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L2**\ (*len*):
*    Use with ENCAP_L3/L4 flags to further specify the tunnel
*    type; *len* is the length of the inner MAC header.
*
*  * **BPF_F_ADJ_ROOM_ENCAP_L2_ETH**:
*    Use with BPF_F_ADJ_ROOM_ENCAP_L2 flag to further specify the
*    L2 type as Ethernet.
*
*  * **BPF_F_ADJ_ROOM_DECAP_L3_IPV4**,
*    **BPF_F_ADJ_ROOM_DECAP_L3_IPV6**:
*    Indicate the new IP header version after decapsulating the outer
*    IP header. Used when the inner and outer IP versions are different.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all
 checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
```

```
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_adjust_room)(struct __sk_buff *skb, __s32 len_diff, __u32 mode, __u64 flags) = (void
*) 50;

/*
* bpf_redirect_map
*
*  Redirect the packet to the endpoint referenced by *map* at
*  index *key*. Depending on its type, this *map* can contain
*  references to net devices (for forwarding packets through other
*  ports), or to CPUs (for redirecting XDP frames to another CPU;
*  but this is only implemented for native XDP (with driver
*  support) as of this writing).
*
*  The lower two bits of *flags* are used as the return code if
*  the map lookup fails. This is so that the return value can be
*  one of the XDP program return codes up to **XDP_TX**, as chosen
*  by the caller. The higher bits of *flags*
 can be set to
*  BPF_F_BROADCAST or BPF_F_EXCLUDE_INGRESS as defined below.
*
*  With BPF_F_BROADCAST the packet will be broadcasted to all the
*  interfaces in the map, with BPF_F_EXCLUDE_INGRESS the ingress
*  interface will be excluded when do broadcasting.
*
*  See also **bpf_redirect**\ (), which only supports redirecting
*  to an ifindex, but doesn't require a map to do so.
*
* Returns
*  **XDP_REDIRECT** on success, or the value of the two lower bits
*  of the *flags* argument on error.
*/
static long (* const bpf_redirect_map)(void *map, __u64 key, __u64 flags) = (void *) 51;

/*
* bpf_sk_redirect_map
*
*  Redirect the packet to the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKMAP**) at index *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported
 for now.
*
```

```
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_sk_redirect_map)(struct __sk_buff *skb, void *map, __u32 key, __u64 flags) = (void *) 52;

/*
* bpf_sock_map_update
*
*  Add an entry to, or update a *map* referencing sockets. The
*  *skops* is used as a new value for the entry associated to
*  *key*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
*
*  If the *map* has eBPF programs (parser and verdict), those will
*  be inherited by the socket being added. If the socket is
*  already attached to eBPF programs, this results in an error.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sock_map_update)(struct bpf_sock_ops *skops, void *map, void *key, __u64 flags) = (void
*)
 53;

/*
* bpf_xdp_adjust_meta
*
*  Adjust the address pointed by *xdp_md*\ **->data_meta** by
*  *delta* (which can be positive or negative). Note that this
*  operation modifies the address stored in *xdp_md*\ **->data**,
*  so the latter must be loaded only after the helper has been
*  called.
*
*  The use of *xdp_md*\ **->data_meta** is optional and programs
*  are not required to use it. The rationale is that when the
*  packet is processed with XDP (e.g. as DoS filter), it is
*  possible to push further meta data along with it before passing
*  to the stack, and to give the guarantee that an ingress eBPF
*  program attached as a TC classifier on the same device can pick
*  this up for further post-processing. Since TC works with socket
*  buffers, it remains possible to set from XDP the **mark** or
*  **priority** pointers, or other pointers for the socket buffer.
```

```
*  Having this scratch space generic and programmable allows for
*  more flexibility as the user is
 free to store whatever meta
*  data they need.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_meta)(struct xdp_md *xdp_md, int delta) = (void *) 54;

/*
* bpf_perf_event_read_value
*
*  Read the value of a perf event counter, and store it into *buf*
*  of size *buf_size*. This helper relies on a *map* of type
*  **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. The nature of the perf event
*  counter is selected when *map* is updated with perf event file
*  descriptors. The *map* is an array whose size is the number of
*  available CPUs, and each cell contains a value relative to one
*  CPU. The value to retrieve is indicated by *flags*, that
 *  contains the index of the CPU to look up, masked with
*  **BPF_F_INDEX_MASK**. Alternatively, *flags* can be set to
*  **BPF_F_CURRENT_CPU** to indicate that the value for the
*  current CPU should be retrieved.
*
*  This helper behaves in a way close to
*  **bpf_perf_event_read**\ () helper, save that instead of
*  just returning the value observed, it fills the *buf*
*  structure. This allows for additional data to be retrieved: in
*  particular, the enabled and running times (in *buf*\
*  **->enabled** and *buf*\ **->running**, respectively) are
*  copied. In general, **bpf_perf_event_read_value**\ () is
*  recommended over **bpf_perf_event_read**\ (), which has some
*  ABI issues and provides fewer functionalities.
*
*  These values are interesting, because hardware PMU (Performance
*  Monitoring Unit) counters are limited resources. When there are
*  more PMU based perf events opened than available counters,
*  kernel will multiplex these events so each event
 gets certain
*  percentage (but not all) of the PMU time. In case that
*  multiplexing happens, the number of samples or counter value
```

```
*  will not reflect the case compared to when no multiplexing
*  occurs. This makes comparison between different runs difficult.
*  Typically, the counter value should be normalized before
*  comparing to other experiments. The usual normalization is done
*  as follows.
*
*  ::
*
*   normalized_counter = counter * t_enabled / t_running
*
*  Where t_enabled is the time enabled for event and t_running is
*  the time running for event since last normalization. The
*  enabled and running times are accumulated since the perf event
*  open. To achieve scaling factor between two invocations of an
*  eBPF program, users can use CPU id as the key (which is
*  typical for perf array usage model) to remember the previous
*  value and do the calculation inside the eBPF program.
*
* Returns
*  0 on success, or a negative error in case of failure.
 */
static long (* const bpf_perf_event_read_value)(void *map, __u64 flags, struct bpf_perf_event_value *buf, __u32
buf_size) = (void *) 55;

/*
* bpf_perf_prog_read_value
*
*  For an eBPF program attached to a perf event, retrieve the
*  value of the event counter associated to *ctx* and store it in
*  the structure pointed by *buf* and of size *buf_size*. Enabled
*  and running times are also stored in the structure (see
*  description of helper **bpf_perf_event_read_value**\ () for
*  more details).
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_perf_prog_read_value)(struct bpf_perf_event_data *ctx, struct bpf_perf_event_value *buf,
__u32 buf_size) = (void *) 56;

/*
* bpf_getsockopt
*
*  Emulate a call to **getsockopt()** on the socket associated to
*  *bpf_socket*, which must be a full socket. The *level* at
*  which the option resides and the name *optname* of the option
*  must be specified, see **getsockopt(2)**
```

```
 for more information.
*  The retrieved value is stored in the structure pointed by
*  *opval* and of length *optlen*.
*
*  *bpf_socket* should be one of the following:
*
*  * **struct bpf_sock_ops** for **BPF_PROG_TYPE_SOCK_OPS**.
*  * **struct bpf_sock_addr** for **BPF_CGROUP_INET4_CONNECT**,
*    **BPF_CGROUP_INET6_CONNECT** and **BPF_CGROUP_UNIX_CONNECT**.
*
*  This helper actually implements a subset of **getsockopt()**.
*  It supports the same set of *optname*\ s that is supported by
*  the **bpf_setsockopt**\ () helper.  The exceptions are
*  **TCP_BPF_*** is **bpf_setsockopt**\ () only and
*  **TCP_SAVED_SYN** is **bpf_getsockopt**\ () only.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_getsockopt)(void *bpf_socket, int level, int optname, void *optval, int optlen) = (void *) 57;

/*
* bpf_override_return
*
*  Used for error injection, this helper uses kprobes to override
*  the return value of the probed
 function, and to set it to *rc*.
*  The first argument is the context *regs* on which the kprobe
*  works.
*
*  This helper works by setting the PC (program counter)
*  to an override function which is run in place of the original
*  probed function. This means the probed function is not run at
*  all. The replacement function just returns with the required
*  value.
*
*  This helper has security implications, and thus is subject to
*  restrictions. It is only available if the kernel was compiled
*  with the **CONFIG_BPF_KPROBE_OVERRIDE** configuration
*  option, and in this case it only works on functions tagged with
*  **ALLOW_ERROR_INJECTION** in the kernel code.
*
*  Also, the helper is only available for the architectures having
*  the CONFIG_FUNCTION_ERROR_INJECTION option. As of this writing,
*  x86 architecture is the only one to support this feature.
*
* Returns
*  0
```

```
*/
static long (* const bpf_override_return)(struct pt_regs *regs, __u64 rc) = (void
 *) 58;

/*
* bpf_sock_ops_cb_flags_set
*
*  Attempt to set the value of the **bpf_sock_ops_cb_flags** field
*  for the full TCP socket associated to *bpf_sock_ops* to
*  *argval*.
*
*  The primary use of this field is to determine if there should
*  be calls to eBPF programs of type
*  **BPF_PROG_TYPE_SOCK_OPS** at various points in the TCP
*  code. A program of the same type can change its value, per
*  connection and as necessary, when the connection is
*  established. This field is directly accessible for reading, but
*  this helper must be used for updates in order to return an
*  error if an eBPF program tries to set a callback that is not
*  supported in the current kernel.
*
*  *argval* is a flag array which can combine these flags:
*
*  * **BPF_SOCK_OPS_RTO_CB_FLAG** (retransmission time out)
*  * **BPF_SOCK_OPS_RETRANS_CB_FLAG** (retransmission)
*  * **BPF_SOCK_OPS_STATE_CB_FLAG** (TCP state change)
*  * **BPF_SOCK_OPS_RTT_CB_FLAG** (every RTT)
*
*  Therefore,
 this function can be used to clear a callback flag by
*  setting the appropriate bit to zero. e.g. to disable the RTO
*  callback:
*
*  **bpf_sock_ops_cb_flags_set(bpf_sock,**
*   **bpf_sock->bpf_sock_ops_cb_flags & ~BPF_SOCK_OPS_RTO_CB_FLAG)**
*
*  Here are some examples of where one could call such eBPF
*  program:
*
*  * When RTO fires.
*  * When a packet is retransmitted.
*  * When the connection terminates.
*  * When a packet is sent.
*  * When a packet is received.
*
* Returns
*  Code **-EINVAL** if the socket is not a full TCP socket;
*  otherwise, a positive number containing the bits that could not
```

```
*  be set is returned (which comes down to 0 if all bits were set
*  as required).
*/
static long (* const bpf_sock_ops_cb_flags_set)(struct bpf_sock_ops *bpf_sock, int argval) = (void *) 59;

/*
* bpf_msg_redirect_map
*
*  This helper is used in programs implementing policies at the
*  socket level. If the message *msg* is allowed to pass (i.e. if
 *  the verdict eBPF program returns **SK_PASS**), redirect it to
*  the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKMAP**) at index *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_msg_redirect_map)(struct sk_msg_md *msg, void *map, __u32 key, __u64 flags) = (void *)
60;

/*
* bpf_msg_apply_bytes
*
*  For socket policies, apply the verdict of the eBPF program to
*  the next *bytes* (number of bytes) of message *msg*.
*
*  For example, this helper can be used in the following cases:
*
*  * A single **sendmsg**\ () or **sendfile**\ () system call
*    contains multiple logical messages that the eBPF program is
*    supposed to read and for which
 it should apply a verdict.
*  * An eBPF program only cares to read the first *bytes* of a
*    *msg*. If the message has a large payload, then setting up
*    and calling the eBPF program repeatedly for all bytes, even
*    though the verdict is already known, would create unnecessary
*    overhead.
*
*  When called from within an eBPF program, the helper sets a
*  counter internal to the BPF infrastructure, that is used to
*  apply the last verdict to the next *bytes*. If *bytes* is
*  smaller than the current data being processed from a
*  **sendmsg**\ () or **sendfile**\ () system call, the first
*  *bytes* will be sent and the eBPF program will be re-run with
```

```
*  the pointer for start of data pointing to byte number *bytes*
*  **+ 1**. If *bytes* is larger than the current data being
*  processed, then the eBPF verdict will be applied to multiple
*  **sendmsg**\ () or **sendfile**\ () calls until *bytes* are
*  consumed.
*
*  Note that if a socket closes with the
 internal counter holding
*  a non-zero value, this is not a problem because data is not
*  being buffered for *bytes* and is sent as it is received.
*
* Returns
*  0
*/
static long (* const bpf_msg_apply_bytes)(struct sk_msg_md *msg, __u32 bytes) = (void *) 61;

/*
* bpf_msg_cork_bytes
*
*  For socket policies, prevent the execution of the verdict eBPF
*  program for message *msg* until *bytes* (byte number) have been
*  accumulated.
*
*  This can be used when one needs a specific number of bytes
*  before a verdict can be assigned, even if the data spans
*  multiple **sendmsg**\ () or **sendfile**\ () calls. The extreme
*  case would be a user calling **sendmsg**\ () repeatedly with
*  1-byte long message segments. Obviously, this is bad for
*  performance, but it is still valid. If the eBPF program needs
*  *bytes* bytes to validate a header, this helper can be used to
*  prevent the eBPF program to be called again until *bytes* have
*  been accumulated.
*
* Returns
 *  0
*/
static long (* const bpf_msg_cork_bytes)(struct sk_msg_md *msg, __u32 bytes) = (void *) 62;

/*
* bpf_msg_pull_data
*
*  For socket policies, pull in non-linear data from user space
*  for *msg* and set pointers *msg*\ **->data** and *msg*\
*  **->data_end** to *start* and *end* bytes offsets into *msg*,
*  respectively.
*
*  If a program of type **BPF_PROG_TYPE_SK_MSG** is run on a
*  *msg* it can only parse data that the (**data**, **data_end**)
```

```
*  pointers have already consumed. For **sendmsg**\ () hooks this
*  is likely the first scatterlist element. But for calls relying
*  on the **sendpage** handler (e.g. **sendfile**\ ()) this will
*  be the range (**0**, **0**) because the data is shared with
*  user space and by default the objective is to avoid allowing
*  user space to modify data while (or after) eBPF verdict is
*  being decided. This helper can be used to pull in data and to
*  set the start and end pointer to given values. Data will be
 *  copied if necessary (i.e. if data was not linear and if start
*  and end pointers do not point to the same chunk).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_msg_pull_data)(struct sk_msg_md *msg, __u32 start, __u32 end, __u64 flags) = (void *)
63;

/*
* bpf_bind
*
*  Bind the socket associated to *ctx* to the address pointed by
*  *addr*, of length *addr_len*. This allows for making outgoing
*  connection from the desired IP address, which can be useful for
*  example when all processes inside a cgroup should use one
*  single IP address on a host
 that has multiple IP configured.
*
*  This helper works for IPv4 and IPv6, TCP and UDP sockets. The
*  domain (*addr*\ **->sa_family**) must be **AF_INET** (or
*  **AF_INET6**). It's advised to pass zero port (**sin_port**
*  or **sin6_port**) which triggers IP_BIND_ADDRESS_NO_PORT-like
*  behavior and lets the kernel efficiently pick up an unused
*  port as long as 4-tuple is unique. Passing non-zero port might
*  lead to degraded performance.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_bind)(struct bpf_sock_addr *ctx, struct sockaddr *addr, int addr_len) = (void *) 64;
```

```
/*
* bpf_xdp_adjust_tail
*
*  Adjust (move) *xdp_md*\ **->data_end** by *delta* bytes. It is
*  possible to both shrink and grow the packet tail.
*  Shrink done via *delta* being a negative integer.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously
 done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_adjust_tail)(struct xdp_md *xdp_md, int delta) = (void *) 65;

/*
* bpf_skb_get_xfrm_state
*
*  Retrieve the XFRM state (IP transform framework, see also
*  **ip-xfrm(8)**) at *index* in XFRM "security path" for *skb*.
*
*  The retrieved value is stored in the **struct bpf_xfrm_state**
*  pointed by *xfrm_state* and of length *size*.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_XFRM** configuration option.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_get_xfrm_state)(struct __sk_buff *skb, __u32 index, struct bpf_xfrm_state *xfrm_state,
__u32 size, __u64
 flags) = (void *) 66;

/*
* bpf_get_stack
*
*  Return a user or a kernel stack in bpf program provided buffer.
*  To achieve this, the helper needs *ctx*, which is a pointer
*  to the context on which the tracing program is executed.
```

```
*  To store the stacktrace, the bpf program provides *buf* with
*  a nonnegative *size*.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can be used to set
*  the following flags:
*
*  **BPF_F_USER_STACK**
*   Collect a user space stack instead of a kernel stack.
*  **BPF_F_USER_BUILD_ID**
*   Collect (build_id, file_offset) instead of ips for user
*   stack, only valid if **BPF_F_USER_STACK** is also
*   specified.
*
*   *file_offset* is an offset relative to the beginning
*   of the executable or shared object file backing the vma
*   which the *ip* falls in. It is *not* an offset relative
*   to that object's base address. Accordingly,
 it must be
*   adjusted by adding (sh_addr - sh_offset), where
*   sh_{addr,offset} correspond to the executable section
*   containing *file_offset* in the object, for comparisons
*   to symbols' st_value to be valid.
*
*  **bpf_get_stack**\ () can collect up to
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames, subject
*  to sufficient large buffer size. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
* Returns
*  The non-negative copied *buf* length equal to or less than
*  *size* on success, or a negative error in case of failure.
*/
static long (* const bpf_get_stack)(void *ctx, void *buf, __u32 size, __u64 flags) = (void *) 67;

/*
* bpf_skb_load_bytes_relative
*
*  This helper is similar to **bpf_skb_load_bytes**\ () in that
 *  it provides an easy way to load *len* bytes from *offset*
*  from the packet associated to *skb*, into the buffer pointed
```

```
*  by *to*. The difference to **bpf_skb_load_bytes**\ () is that
*  a fifth argument *start_header* exists in order to select a
*  base offset to start from. *start_header* can be one of:
*
*  **BPF_HDR_START_MAC**
*   Base offset to load data from is *skb*'s mac header.
*  **BPF_HDR_START_NET**
*   Base offset to load data from is *skb*'s network header.
*
*  In general, "direct packet access" is the preferred method to
*  access packet data, however, this helper is in particular useful
*  in socket filters where *skb*\ **->data** does not always point
*  to the start of the mac header and where "direct packet access"
*  is not available.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_load_bytes_relative)(const void *skb, __u32 offset, void *to, __u32 len, __u32
start_header) = (void *) 68;

/*
 * bpf_fib_lookup
*
*  Do FIB lookup in kernel tables using parameters in *params*.
*  If lookup is successful and result shows packet is to be
*  forwarded, the neighbor tables are searched for the nexthop.
*  If successful (ie., FIB lookup shows forwarding and nexthop
*  is resolved), the nexthop address is returned in ipv4_dst
*  or ipv6_dst based on family, smac is set to mac address of
*  egress device, dmac is set to nexthop mac address, rt_metric
*  is set to metric from route (IPv4/IPv6 only), and ifindex
*  is set to the device index of the nexthop from the FIB lookup.
*
*  *plen* argument is the size of the passed in struct.
*  *flags* argument can be a combination of one or more of the
*  following values:
*
*  **BPF_FIB_LOOKUP_DIRECT**
*   Do a direct table lookup vs full lookup using FIB
*   rules.
*  **BPF_FIB_LOOKUP_TBID**
*   Used with BPF_FIB_LOOKUP_DIRECT.
*   Use the routing table ID present in *params*->tbid
*   for the fib lookup.
*  **BPF_FIB_LOOKUP_OUTPUT**
 *   Perform lookup from an egress perspective (default is
*   ingress).
```

```
*  **BPF_FIB_LOOKUP_SKIP_NEIGH**
*   Skip the neighbour table lookup. *params*->dmac
*   and *params*->smac will not be set as output. A common
*   use case is to call **bpf_redirect_neigh**\ () after
*   doing **bpf_fib_lookup**\ ().
*  **BPF_FIB_LOOKUP_SRC**
*   Derive and set source IP addr in *params*->ipv{4,6}_src
*   for the nexthop. If the src addr cannot be derived,
*   **BPF_FIB_LKUP_RET_NO_SRC_ADDR** is returned. In this
*   case, *params*->dmac and *params*->smac are not set either.
*  **BPF_FIB_LOOKUP_MARK**
*   Use the mark present in *params*->mark for the fib lookup.
*   This option should not be used with BPF_FIB_LOOKUP_DIRECT,
*   as it only has meaning for full lookups.
*
*  *ctx* is either **struct xdp_md** for XDP programs or
*  **struct sk_buff** tc cls_act programs.
*
* Returns
*  * < 0 if any input argument is invalid
*  *   0 on success (packet
 is forwarded, nexthop neighbor exists)
*  * > 0 one of **BPF_FIB_LKUP_RET_** codes explaining why the
*    packet is not forwarded or needs assist from full stack
*
*  If lookup fails with BPF_FIB_LKUP_RET_FRAG_NEEDED, then the MTU
*  was exceeded and output params->mtu_result contains the MTU.
*/
static long (* const bpf_fib_lookup)(void *ctx, struct bpf_fib_lookup *params, int plen, __u32 flags) = (void *) 69;

/*
* bpf_sock_hash_update
*
*  Add an entry to, or update a sockhash *map* referencing sockets.
*  The *skops* is used as a new value for the entry associated to
*  *key*. *flags* is one of:
*
*  **BPF_NOEXIST**
*   The entry for *key* must not exist in the map.
*  **BPF_EXIST**
*   The entry for *key* must already exist in the map.
*  **BPF_ANY**
*   No condition on the existence of the entry for *key*.
*
*  If the *map* has eBPF programs (parser and verdict), those will
*  be inherited by the socket being added. If the socket is
*  already attached to
```

```
 eBPF programs, this results in an error.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sock_hash_update)(struct bpf_sock_ops *skops, void *map, void *key, __u64 flags) = (void
*) 70;

/*
* bpf_msg_redirect_hash
*
*  This helper is used in programs implementing policies at the
*  socket level. If the message *msg* is allowed to pass (i.e. if
*  the verdict eBPF program returns **SK_PASS**), redirect it to
*  the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKHASH**) using hash *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress path otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_msg_redirect_hash)(struct sk_msg_md *msg, void *map, void *key, __u64 flags)
 = (void *) 71;

/*
* bpf_sk_redirect_hash
*
*  This helper is used in programs implementing policies at the
*  skb socket level. If the sk_buff *skb* is allowed to pass (i.e.
*  if the verdict eBPF program returns **SK_PASS**), redirect it
*  to the socket referenced by *map* (of type
*  **BPF_MAP_TYPE_SOCKHASH**) using hash *key*. Both ingress and
*  egress interfaces can be used for redirection. The
*  **BPF_F_INGRESS** value in *flags* is used to make the
*  distinction (ingress path is selected if the flag is present,
*  egress otherwise). This is the only flag supported for now.
*
* Returns
*  **SK_PASS** on success, or **SK_DROP** on error.
*/
static long (* const bpf_sk_redirect_hash)(struct __sk_buff *skb, void *map, void *key, __u64 flags) = (void *) 72;

/*
* bpf_lwt_push_encap
*
```

```
*  Encapsulate the packet associated to *skb* within a Layer 3
*  protocol header. This header is provided in the buffer at
*  address *hdr*, with *len* its size in bytes. *type*
 indicates
*  the protocol of the header and can be one of:
*
*  **BPF_LWT_ENCAP_SEG6**
*   IPv6 encapsulation with Segment Routing Header
*   (**struct ipv6_sr_hdr**). *hdr* only contains the SRH,
*   the IPv6 header is computed by the kernel.
*  **BPF_LWT_ENCAP_SEG6_INLINE**
*   Only works if *skb* contains an IPv6 packet. Insert a
*   Segment Routing Header (**struct ipv6_sr_hdr**) inside
*   the IPv6 header.
*  **BPF_LWT_ENCAP_IP**
*   IP encapsulation (GRE/GUE/IPIP/etc). The outer header
*   must be IPv4 or IPv6, followed by zero or more
*   additional headers, up to **LWT_BPF_MAX_HEADROOM**
*   total bytes in all prepended headers. Please note that
*   if **skb_is_gso**\ (*skb*) is true, no more than two
*   headers can be prepended, and the inner header, if
*   present, should be either GRE or UDP/GUE.
*
*  **BPF_LWT_ENCAP_SEG6**\ \* types can be called by BPF programs
*  of type **BPF_PROG_TYPE_LWT_IN**; **BPF_LWT_ENCAP_IP** type can
*  be called by bpf programs
 of types **BPF_PROG_TYPE_LWT_IN** and
*  **BPF_PROG_TYPE_LWT_XMIT**.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_push_encap)(struct __sk_buff *skb, __u32 type, void *hdr, __u32 len) = (void *) 73;

/*
* bpf_lwt_seg6_store_bytes
*
*  Store *len* bytes from address *from* into the packet
*  associated to *skb*, at *offset*. Only the flags, tag and TLVs
*  inside the outermost IPv6 Segment Routing Header can be
*  modified through this helper.
*
```

```
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and
 must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_seg6_store_bytes)(struct __sk_buff *skb, __u32 offset, const void *from, __u32 len) =
(void *) 74;

/*
* bpf_lwt_seg6_adjust_srh
*
*  Adjust the size allocated to TLVs in the outermost IPv6
*  Segment Routing Header contained in the packet associated to
*  *skb*, at position *offset* by *delta* bytes. Only offsets
*  after the segments are accepted. *delta* can be as well
*  positive (growing) as negative (shrinking).
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer. Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static
 long (* const bpf_lwt_seg6_adjust_srh)(struct __sk_buff *skb, __u32 offset, __s32 delta) = (void *) 75;

/*
* bpf_lwt_seg6_action
*
*  Apply an IPv6 Segment Routing action of type *action* to the
*  packet associated to *skb*. Each action takes a parameter
*  contained at address *param*, and of length *param_len* bytes.
*  *action* can be one of:
*
*  **SEG6_LOCAL_ACTION_END_X**
*   End.X action: Endpoint with Layer-3 cross-connect.
*   Type of *param*: **struct in6_addr**.
*  **SEG6_LOCAL_ACTION_END_T**
*   End.T action: Endpoint with specific IPv6 table lookup.
*   Type of *param*: **int**.
```

```
*  **SEG6_LOCAL_ACTION_END_B6**
*   End.B6 action: Endpoint bound to an SRv6 policy.
*   Type of *param*: **struct ipv6_sr_hdr**.
*  **SEG6_LOCAL_ACTION_END_B6_ENCAP**
*   End.B6.Encap action: Endpoint bound to an SRv6
*   encapsulation policy.
*   Type of *param*: **struct ipv6_sr_hdr**.
*
*  A call to this helper is susceptible to change the underlying
*  packet buffer.
 Therefore, at load time, all checks on pointers
*  previously done by the verifier are invalidated and must be
*  performed again, if the helper is used in combination with
*  direct packet access.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_lwt_seg6_action)(struct __sk_buff *skb, __u32 action, void *param, __u32 param_len) =
(void *) 76;

/*
* bpf_rc_repeat
*
*  This helper is used in programs implementing IR decoding, to
*  report a successfully decoded repeat key message. This delays
*  the generation of a key up event for previously generated
*  key down event.
*
*  Some IR protocols like NEC have a special IR message for
*  repeating last button, for when a button is held down.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration option set to
*  "**y**".
*
* Returns
 *  0
*/
static long (* const bpf_rc_repeat)(void *ctx) = (void *) 77;

/*
* bpf_rc_keydown
*
*  This helper is used in programs implementing IR decoding, to
```

```
*  report a successfully decoded key press with *scancode*,
*  *toggle* value in the given *protocol*. The scancode will be
*  translated to a keycode using the rc keymap, and reported as
*  an input key down event. After a period a key up event is
*  generated. This period can be extended by calling either
*  **bpf_rc_keydown**\ () again with the same values, or calling
*  **bpf_rc_repeat**\ ().
*
*  Some protocols include a toggle bit, in case the button was
*  released and pressed again between consecutive scancodes.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
*  The *protocol* is the decoded protocol number (see
*  **enum rc_proto** for some predefined values).
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration
 option set to
*  "**y**".
*
* Returns
*  0
*/
static long (* const bpf_rc_keydown)(void *ctx, __u32 protocol, __u64 scancode, __u32 toggle) = (void *) 78;

/*
* bpf_skb_cgroup_id
*
*  Return the cgroup v2 id of the socket associated with the *skb*.
*  This is roughly similar to the **bpf_get_cgroup_classid**\ ()
*  helper for cgroup v1 by providing a tag resp. identifier that
*  can be matched on or used for map lookups e.g. to implement
*  policy. The cgroup v2 id of a given path in the hierarchy is
*  exposed in user space through the f_handle API in order to get
*  to the same 64-bit id.
*
*  This helper can be used on TC egress path, but not on ingress,
*  and is available only if the kernel was compiled with the
*  **CONFIG_SOCK_CGROUP_DATA** configuration option.
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_skb_cgroup_id)(struct __sk_buff *skb) = (void *) 79;

/*
```

```
* bpf_get_current_cgroup_id
 *
*  Get the current cgroup id based on the cgroup within which
*  the current task is running.
*
* Returns
*  A 64-bit integer containing the current cgroup id based
*  on the cgroup within which the current task is running.
*/
static __u64 (* const bpf_get_current_cgroup_id)(void) = (void *) 80;

/*
* bpf_get_local_storage
*
*  Get the pointer to the local storage area.
*  The type and the size of the local storage is defined
*  by the *map* argument.
*  The *flags* meaning is specific for each map type,
*  and has to be 0 for cgroup local storage.
*
*  Depending on the BPF program type, a local storage area
*  can be shared between multiple instances of the BPF program,
*  running simultaneously.
*
*  A user should care about the synchronization by himself.
*  For example, by using the **BPF_ATOMIC** instructions to alter
*  the shared data.
*
* Returns
*  A pointer to the local storage area.
*/
static void *(* const bpf_get_local_storage)(void *map, __u64
 flags) = (void *) 81;

/*
* bpf_sk_select_reuseport
*
*  Select a **SO_REUSEPORT** socket from a
*  **BPF_MAP_TYPE_REUSEPORT_SOCKARRAY** *map*.
*  It checks the selected socket is matching the incoming
*  request in the socket buffer.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sk_select_reuseport)(struct sk_reuseport_md *reuse, void *map, void *key, __u64 flags) =
(void *) 82;
```

```
/*
* bpf_skb_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of cgroup associated
*  with the *skb* at the *ancestor_level*.  The root cgroup is at
*  *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with *skb*, then return value will be same as that
*  of **bpf_skb_cgroup_id**\ ().
*
*  The helper is useful to implement policies based on cgroups
*  that are upper in hierarchy than immediate cgroup associated
*  with *skb*.
*
*  The format
 of returned id and helper limitations are same as in
*  **bpf_skb_cgroup_id**\ ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_skb_ancestor_cgroup_id)(struct __sk_buff *skb, int ancestor_level) = (void *) 83;

/*
* bpf_sk_lookup_tcp
*
*  Look for TCP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released via **bpf_sk_release**\ ().
*
*  The *ctx* should point to the context of the program, such as
*  the skb or socket (depending on the hook in use). This is used
*  to determine the base network namespace for the lookup.
*
*  *tuple_size* must be one of:
*
*  **sizeof**\ (*tuple*\ **->ipv4**)
*   Look for an IPv4 socket.
*  **sizeof**\ (*tuple*\ **->ipv6**)
*   Look for an IPv6 socket.
*
*  If the *netns* is a negative signed 32-bit integer, then the
*  socket lookup table in the netns associated with the *ctx*
 *  will be used. For the TC hooks, this is the netns of the device
*  in the skb. For socket hooks, this is the netns of the socket.
*  If *netns* is any other signed 32-bit value greater than or
*  equal to zero then it specifies the ID of the netns relative to
*  the netns associated with the *ctx*. *netns* values beyond the
```

```
*  range of 32-bit integers are reserved for future use.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_sk_lookup_tcp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 84;

/*
* bpf_sk_lookup_udp
 *
*  Look for UDP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released via **bpf_sk_release**\ ().
*
*  The *ctx* should point to the context of the program, such as
*  the skb or socket (depending on the hook in use). This is used
*  to determine the base network namespace for the lookup.
*
*  *tuple_size* must be one of:
*
*  **sizeof**\ (*tuple*\ **->ipv4**)
*   Look for an IPv4 socket.
*  **sizeof**\ (*tuple*\ **->ipv6**)
*   Look for an IPv6 socket.
*
*  If the *netns* is a negative signed 32-bit integer, then the
*  socket lookup table in the netns associated with the *ctx*
*  will be used. For the TC hooks, this is the netns of the device
*  in the skb. For socket hooks, this is the netns of the socket.
*  If *netns* is any other signed 32-bit value greater than or
*  equal to zero then it specifies the ID of the netns relative to
*  the netns associated with the *ctx*.
 *netns* values beyond the
*  range of 32-bit integers are reserved for future use.
*
*  All values for *flags* are reserved for future usage, and must
*  be left at zero.
*
```

```
*  This helper is available only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_sk_lookup_udp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 85;

/*
* bpf_sk_release
*
*  Release the reference held by *sock*. *sock* must be a
*  non-**NULL** pointer that was returned from
*  **bpf_sk_lookup_xxx**\ ().
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_sk_release)(void *sock) = (void *) 86;

/*
* bpf_map_push_elem
*
*
  Push an element *value* in *map*. *flags* is one of:
*
*  **BPF_EXIST**
*   If the queue/stack is full, the oldest element is
*   removed to make room for this.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_push_elem)(void *map, const void *value, __u64 flags) = (void *) 87;

/*
* bpf_map_pop_elem
*
*  Pop an element from *map*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_pop_elem)(void *map, void *value) = (void *) 88;
```

```
/*
* bpf_map_peek_elem
*
*  Get an element from *map* without removing it.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_map_peek_elem)(void *map, void *value) = (void *) 89;

/*
* bpf_msg_push_data
*
*  For socket policies, insert *len* bytes into *msg* at offset
*  *start*.
*
*  If a program of type **BPF_PROG_TYPE_SK_MSG** is run on a
*  *msg* it may want to insert metadata or
 options into the *msg*.
*  This can later be read and used by any of the lower layer BPF
*  hooks.
*
*  This helper may fail if under memory pressure (a malloc
*  fails) in these cases BPF programs will get an appropriate
*  error and BPF programs will need to handle them.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_msg_push_data)(struct sk_msg_md *msg, __u32 start, __u32 len, __u64 flags) = (void *)
90;

/*
* bpf_msg_pop_data
*
*  Will remove *len* bytes from a *msg* starting at byte *start*.
*  This may result in **ENOMEM** errors under certain situations if
*  an allocation and copy are required due to a full ring buffer.
*  However, the helper will try to avoid doing the allocation
*  if possible. Other errors can occur if input parameters are
*  invalid either due to *start* byte not being valid part of *msg*
*  payload and/or *pop* value being to large.
*
* Returns
*  0 on success, or a negative error in
 case of failure.
*/
```

```
static long (* const bpf_msg_pop_data)(struct sk_msg_md *msg, __u32 start, __u32 len, __u64 flags) = (void *) 91;

/*
* bpf_rc_pointer_rel
*
*  This helper is used in programs implementing IR decoding, to
*  report a successfully decoded pointer movement.
*
*  The *ctx* should point to the lirc sample as passed into
*  the program.
*
*  This helper is only available is the kernel was compiled with
*  the **CONFIG_BPF_LIRC_MODE2** configuration option set to
*  "**y**".
*
* Returns
*  0
*/
static long (* const bpf_rc_pointer_rel)(void *ctx, __s32 rel_x, __s32 rel_y) = (void *) 92;

/*
* bpf_spin_lock
*
*  Acquire a spinlock represented by the pointer *lock*, which is
*  stored as part of a value of a map. Taking the lock allows to
*  safely update the rest of the fields in that value. The
*  spinlock can (and must) later be released with a call to
*  **bpf_spin_unlock**\ (\ *lock*\ ).
*
*  Spinlocks in BPF programs come with a number of restrictions
 *  and constraints:
*
*  * **bpf_spin_lock** objects are only allowed inside maps of
*    types **BPF_MAP_TYPE_HASH** and **BPF_MAP_TYPE_ARRAY** (this
*    list could be extended in the future).
*  * BTF description of the map is mandatory.
*  * The BPF program can take ONE lock at a time, since taking two
*    or more could cause dead locks.
*  * Only one **struct bpf_spin_lock** is allowed per map element.
*  * When the lock is taken, calls (either BPF to BPF or helpers)
*    are not allowed.
*  * The **BPF_LD_ABS** and **BPF_LD_IND** instructions are not
*    allowed inside a spinlock-ed region.
*  * The BPF program MUST call **bpf_spin_unlock**\ () to release
*    the lock, on all execution paths, before it returns.
*  * The BPF program can access **struct bpf_spin_lock** only via
*    the **bpf_spin_lock**\ () and **bpf_spin_unlock**\ ()
*    helpers. Loading or storing data into the **struct
```

```
*    bpf_spin_lock** *lock*\ **;** field of a map is not allowed.
 *  * To use the **bpf_spin_lock**\ () helper, the BTF description
*    of the map value must be a struct and have **struct
*    bpf_spin_lock** *anyname*\ **;** field at the top level.
*    Nested lock inside another struct is not allowed.
*  * The **struct bpf_spin_lock** *lock* field in a map value must
*    be aligned on a multiple of 4 bytes in that value.
*  * Syscall with command **BPF_MAP_LOOKUP_ELEM** does not copy
*    the **bpf_spin_lock** field to user space.
*  * Syscall with command **BPF_MAP_UPDATE_ELEM**, or update from
*    a BPF program, do not update the **bpf_spin_lock** field.
*  * **bpf_spin_lock** cannot be on the stack or inside a
*    networking packet (it can only be inside of a map values).
*  * **bpf_spin_lock** is available to root only.
*  * Tracing programs and socket filter programs cannot use
*    **bpf_spin_lock**\ () due to insufficient preemption checks
*    (but this may change in the future).
*  * **bpf_spin_lock** is not allowed
 in inner maps of map-in-map.
*
* Returns
*  0
*/
static long (* const bpf_spin_lock)(struct bpf_spin_lock *lock) = (void *) 93;

/*
* bpf_spin_unlock
*
*  Release the *lock* previously locked by a call to
*  **bpf_spin_lock**\ (\ *lock*\ ).
*
* Returns
*  0
*/
static long (* const bpf_spin_unlock)(struct bpf_spin_lock *lock) = (void *) 94;

/*
* bpf_sk_fullsock
*
*  This helper gets a **struct bpf_sock** pointer such
*  that all the fields in this **bpf_sock** can be accessed.
*
* Returns
*  A **struct bpf_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_sock *(* const bpf_sk_fullsock)(struct bpf_sock *sk) = (void *) 95;
```

```
/*
* bpf_tcp_sock
*
*  This helper gets a **struct bpf_tcp_sock** pointer from a
*  **struct bpf_sock** pointer.
*
* Returns
*  A **struct bpf_tcp_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_tcp_sock *(* const bpf_tcp_sock)(struct bpf_sock *sk) = (void *) 96;

/*
 * bpf_skb_ecn_set_ce
*
*  Set ECN (Explicit Congestion Notification) field of IP header
*  to **CE** (Congestion Encountered) if current value is **ECT**
*  (ECN Capable Transport). Otherwise, do nothing. Works with IPv6
*  and IPv4.
*
* Returns
*  1 if the **CE** flag is set (either by the current helper call
*  or because it was already present), 0 if it is not set.
*/
static long (* const bpf_skb_ecn_set_ce)(struct __sk_buff *skb) = (void *) 97;

/*
* bpf_get_listener_sock
*
*  Return a **struct bpf_sock** pointer in **TCP_LISTEN** state.
*  **bpf_sk_release**\ () is unnecessary and not allowed.
*
* Returns
*  A **struct bpf_sock** pointer on success, or **NULL** in
*  case of failure.
*/
static struct bpf_sock *(* const bpf_get_listener_sock)(struct bpf_sock *sk) = (void *) 98;

/*
* bpf_skc_lookup_tcp
*
*  Look for TCP socket matching *tuple*, optionally in a child
*  network namespace *netns*. The return value must be checked,
*  and if non-**NULL**, released
 via **bpf_sk_release**\ ().
*
*  This function is identical to **bpf_sk_lookup_tcp**\ (), except
*  that it also returns timewait or request sockets. Use
```

```
*  **bpf_sk_fullsock**\ () or **bpf_tcp_sock**\ () to access the
*  full structure.
*
*  This helper is available only if the kernel was compiled with
*  **CONFIG_NET** configuration option.
*
* Returns
*  Pointer to **struct bpf_sock**, or **NULL** in case of failure.
*  For sockets with reuseport option, the **struct bpf_sock**
*  result is from *reuse*\ **->socks**\ [] using the hash of the
*  tuple.
*/
static struct bpf_sock *(* const bpf_skc_lookup_tcp)(void *ctx, struct bpf_sock_tuple *tuple, __u32 tuple_size,
__u64 netns, __u64 flags) = (void *) 99;

/*
* bpf_tcp_check_syncookie
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK for
*  the listening socket in *sk*.
*
*  *iph* points to the start of the IPv4 or IPv6 header, while
*  *iph_len* contains **sizeof**\ (**struct iphdr**) or
*
  **sizeof**\ (**struct ipv6hdr**).
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header (at least
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
*  0 if *iph* and *th* are a valid SYN cookie ACK, or a negative
*  error otherwise.
*/
static long (* const bpf_tcp_check_syncookie)(void *sk, void *iph, __u32 iph_len, struct tcphdr *th, __u32 th_len)
= (void *) 100;

/*
* bpf_sysctl_get_name
*
*  Get name of sysctl in /proc/sys/ and copy it into provided by
*  program buffer *buf* of size *buf_len*.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
*  If *flags* is zero, full name (e.g. "net/ipv4/tcp_mem") is
*  copied. Use **BPF_F_SYSCTL_BASE_NAME** flag to copy base name
*  only (e.g. "tcp_mem").
```

```
*
* Returns
*  Number of character copied (not including the trailing NUL).
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
*  truncated name in this case).
*/
static long (* const
 bpf_sysctl_get_name)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len, __u64 flags) = (void *) 101;

/*
* bpf_sysctl_get_current_value
*
*  Get current value of sysctl as it is presented in /proc/sys
*  (incl. newline, etc), and copy it as a string into provided
*  by program buffer *buf* of size *buf_len*.
*
*  The whole value is copied, no matter what file position user
*  space issued e.g. sys_read at.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
* Returns
*  Number of character copied (not including the trailing NUL).
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
*  truncated name in this case).
*
*  **-EINVAL** if current value was unavailable, e.g. because
*  sysctl is uninitialized and read returns -EIO for it.
*/
static long (* const bpf_sysctl_get_current_value)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len) = (void
*) 102;

/*
* bpf_sysctl_get_new_value
*
*  Get new value being written by
 user space to sysctl (before
*  the actual write happens) and copy it as a string into
*  provided by program buffer *buf* of size *buf_len*.
*
*  User space may write new value at file position > 0.
*
*  The buffer is always NUL terminated, unless it's zero-sized.
*
* Returns
*  Number of character copied (not including the trailing NUL).
```

```
*
*  **-E2BIG** if the buffer wasn't big enough (*buf* will contain
*  truncated name in this case).
*
*  **-EINVAL** if sysctl is being read.
*/
static long (* const bpf_sysctl_get_new_value)(struct bpf_sysctl *ctx, char *buf, unsigned long buf_len) = (void *)
103;

/*
* bpf_sysctl_set_new_value
*
*  Override new value being written by user space to sysctl with
*  value provided by program in buffer *buf* of size *buf_len*.
*
*  *buf* should contain a string in same form as provided by user
*  space on sysctl write.
*
*  User space may write new value at file position > 0. To override
*  the whole sysctl value file position
 should be set to zero.
*
* Returns
*  0 on success.
*
*  **-E2BIG** if the *buf_len* is too big.
*
*  **-EINVAL** if sysctl is being read.
*/
static long (* const bpf_sysctl_set_new_value)(struct bpf_sysctl *ctx, const char *buf, unsigned long buf_len) =
(void *) 104;

/*
* bpf_strtol
*
*  Convert the initial part of the string from buffer *buf* of
*  size *buf_len* to a long integer according to the given base
*  and save the result in *res*.
*
*  The string may begin with an arbitrary amount of white space
*  (as determined by **isspace**\ (3)) followed by a single
*  optional '**-**' sign.
*
*  Five least significant bits of *flags* encode base, other bits
*  are currently unused.
*
*  Base must be either 8, 10, 16 or 0 to detect it automatically
*  similar to user space **strtol**\ (3).
```

```
*
* Returns
*  Number of characters consumed on success. Must be positive but
*  no more than *buf_len*.
*
*  **-EINVAL** if no valid digits were found or unsupported base
 *  was provided.
*
*  **-ERANGE** if resulting value was out of range.
*/
static long (* const bpf_strtol)(const char *buf, unsigned long buf_len, __u64 flags, long *res) = (void *) 105;

/*
* bpf_strtoul
*
*  Convert the initial part of the string from buffer *buf* of
*  size *buf_len* to an unsigned long integer according to the
*  given base and save the result in *res*.
*
*  The string may begin with an arbitrary amount of white space
*  (as determined by **isspace**\ (3)).
*
*  Five least significant bits of *flags* encode base, other bits
*  are currently unused.
*
*  Base must be either 8, 10, 16 or 0 to detect it automatically
*  similar to user space **strtoul**\ (3).
*
* Returns
*  Number of characters consumed on success. Must be positive but
*  no more than *buf_len*.
*
*  **-EINVAL** if no valid digits were found or unsupported base
*  was provided.
*
*  **-ERANGE** if resulting value was out of range.
*/
static long (* const bpf_strtoul)(const
 char *buf, unsigned long buf_len, __u64 flags, unsigned long *res) = (void *) 106;

/*
* bpf_sk_storage_get
*
*  Get a bpf-local-storage from a *sk*.
*
*  Logically, it could be thought of getting the value from
*  a *map* with *sk* as the **key**.  From this
*  perspective,  the usage is not much different from
```

```
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *sk*) except this
*  helper enforces the key must be a full socket and the map must
*  be a **BPF_MAP_TYPE_SK_STORAGE** also.
*
*  Underneath, the value is stored locally at *sk* instead of
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf-local-storages residing at *sk*.
*
*  *sk* is a kernel **struct sock** pointer for LSM program.
*  *sk* is a **struct bpf_sock** pointer for other program types.
*
*  An optional *flags* (**BPF_SK_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf-local-storage will be
*  created
 if one does not exist.  *value* can be used
*  together with **BPF_SK_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf-local-storage.  If *value* is
*  **NULL**, the new bpf-local-storage will be zero initialized.
*
* Returns
*  A bpf-local-storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf-local-storage.
*/
static void *(* const bpf_sk_storage_get)(void *map, void *sk, void *value, __u64 flags) = (void *) 107;

/*
* bpf_sk_storage_delete
*
*  Delete a bpf-local-storage from a *sk*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf-local-storage cannot be found.
*  **-EINVAL** if sk is not a fullsock (e.g. a request_sock).
*/
static long (* const bpf_sk_storage_delete)(void *map, void *sk) = (void *) 108;

/*
* bpf_send_signal
*
*  Send signal *sig* to the process of the current task.
*  The signal may be delivered to any of this process's threads.
*
* Returns
```

```
*  0 on success
 or successfully queued.
*
*  **-EBUSY** if work queue under nmi is full.
*
*  **-EINVAL** if *sig* is invalid.
*
*  **-EPERM** if no permission to send the *sig*.
*
*  **-EAGAIN** if bpf program can try again.
*/
static long (* const bpf_send_signal)(__u32 sig) = (void *) 109;

/*
* bpf_tcp_gen_syncookie
*
*  Try to issue a SYN cookie for the packet with corresponding
*  IP/TCP headers, *iph* and *th*, on the listening socket in *sk*.
*
*  *iph* points to the start of the IPv4 or IPv6 header, while
*  *iph_len* contains **sizeof**\ (**struct iphdr**) or
*  **sizeof**\ (**struct ipv6hdr**).
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header with options (at least
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
*  On success, lower 32 bits hold the generated SYN cookie in
*  followed by 16 bits which hold the MSS value for that cookie,
*  and the top 16 bits are unused.
*
*  On failure, the returned
 value is one of the following:
*
*  **-EINVAL** SYN cookie cannot be issued due to error
*
*  **-ENOENT** SYN cookie should not be issued (no SYN flood)
*
*  **-EOPNOTSUPP** kernel configuration does not enable SYN cookies
*
*  **-EPROTONOSUPPORT** IP packet version is not 4 or 6
*/
static __s64 (* const bpf_tcp_gen_syncookie)(void *sk, void *iph, __u32 iph_len, struct tcphdr *th, __u32 th_len) =
(void *) 110;

/*
* bpf_skb_output
```

```
*
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following attributes: **PERF_SAMPLE_RAW**
*  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core
 should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
*  *ctx* is a pointer to in-kernel struct sk_buff.
*
*  This helper is similar to **bpf_perf_event_output**\ () but
*  restricted to raw_tracepoint bpf programs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_skb_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *) 111;

/*
* bpf_probe_read_user
*
*  Safely attempt to read *size* bytes from user space address
*  *unsafe_ptr* and store the data in *dst*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_probe_read_user)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 112;

/*
* bpf_probe_read_kernel
*
*  Safely attempt to read *size* bytes from kernel space address
*  *unsafe_ptr* and store the data in *dst*.
*
* Returns
*  0 on success, or a negative error in case of
 failure.
*/
```

```
static long (* const bpf_probe_read_kernel)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 113;

/*
* bpf_probe_read_user_str
*
*  Copy a NUL terminated string from an unsafe user address
*  *unsafe_ptr* to *dst*. The *size* should include the
*  terminating NUL byte. In case the string length is smaller than
*  *size*, the target is not padded with further NUL bytes. If the
*  string length is larger than *size*, just *size*-1 bytes are
*  copied and the last byte is set to NUL.
*
*  On success, returns the number of bytes that were written,
*  including the terminal NUL. This makes this helper useful in
*  tracing programs for reading strings, and more importantly to
*  get its length at runtime. See the following snippet:
*
*  ::
*
*   SEC("kprobe/sys_open")
*   void bpf_sys_open(struct pt_regs *ctx)
*   {
*           char buf[PATHLEN]; // PATHLEN is defined to 256
*           int res = bpf_probe_read_user_str(buf, sizeof(buf),
*
                            ctx->di);
*
*    // Consume buf, for example push it to
*    // userspace via bpf_perf_event_output(); we
*    // can use res (the string length) as event
*    // size, after checking its boundaries.
*   }
*
*  In comparison, using **bpf_probe_read_user**\ () helper here
*  instead to read the string would require to estimate the length
*  at compile time, and would often result in copying more memory
*  than necessary.
*
*  Another useful use case is when parsing individual process
*  arguments or individual environment variables navigating
*  *current*\ **->mm->arg_start** and *current*\
*  **->mm->env_start**: using this helper and the return value,
*  one can quickly iterate at the right offset of the memory area.
*
* Returns
*  On success, the strictly positive length of the output string,
*  including the trailing NUL character. On error, a negative
*  value.
```

```
*/
static long (* const bpf_probe_read_user_str)(void *dst, __u32 size,
 const void *unsafe_ptr) = (void *) 114;

/*
* bpf_probe_read_kernel_str
*
*  Copy a NUL terminated string from an unsafe kernel address *unsafe_ptr*
*  to *dst*. Same semantics as with **bpf_probe_read_user_str**\ () apply.
*
* Returns
*  On success, the strictly positive length of the string, including
*  the trailing NUL character. On error, a negative value.
*/
static long (* const bpf_probe_read_kernel_str)(void *dst, __u32 size, const void *unsafe_ptr) = (void *) 115;

/*
* bpf_tcp_send_ack
*
*  Send out a tcp-ack. *tp* is the in-kernel struct **tcp_sock**.
*  *rcv_nxt* is the ack_seq to be sent out.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_tcp_send_ack)(void *tp, __u32 rcv_nxt) = (void *) 116;

/*
* bpf_send_signal_thread
*
*  Send signal *sig* to the thread corresponding to the current task.
*
* Returns
*  0 on success or successfully queued.
*
*  **-EBUSY** if work queue under nmi is full.
*
 *  **-EINVAL** if *sig* is invalid.
*
*  **-EPERM** if no permission to send the *sig*.
*
*  **-EAGAIN** if bpf program can try again.
*/
static long (* const bpf_send_signal_thread)(__u32 sig) = (void *) 117;

/*
* bpf_jiffies64
*
```

```
*  Obtain the 64bit jiffies
*
* Returns
*  The 64 bit jiffies
*/
static __u64 (* const bpf_jiffies64)(void) = (void *) 118;

/*
* bpf_read_branch_records
*
*  For an eBPF program attached to a perf event, retrieve the
*  branch records (**struct perf_branch_entry**) associated to *ctx*
*  and store it in the buffer pointed by *buf* up to size
*  *size* bytes.
*
* Returns
*  On success, number of bytes written to *buf*. On error, a
*  negative value.
*
*  The *flags* can be set to **BPF_F_GET_BRANCH_RECORDS_SIZE** to
*  instead return the number of bytes required to store all the
*  branch entries. If this flag is set, *buf* may be NULL.
*
*  **-EINVAL** if arguments invalid or **size** not a multiple
*  of **sizeof**\ (**struct perf_branch_entry**\
 ).
*
*  **-ENOENT** if architecture does not support branch records.
*/
static long (* const bpf_read_branch_records)(struct bpf_perf_event_data *ctx, void *buf, __u32 size, __u64 flags)
= (void *) 119;

/*
* bpf_get_ns_current_pid_tgid
*
*  Returns 0 on success, values for *pid* and *tgid* as seen from the current
*  *namespace* will be returned in *nsdata*.
*
* Returns
*  0 on success, or one of the following in case of failure:
*
*  **-EINVAL** if dev and inum supplied don't match dev_t and inode number
*  with nsfs of current task, or if dev conversion to dev_t lost high bits.
*
*  **-ENOENT** if pidns does not exists for the current task.
*/
static long (* const bpf_get_ns_current_pid_tgid)(__u64 dev, __u64 ino, struct bpf_pidns_info *nsdata, __u32 size)
= (void *) 120;
```

```
/*
* bpf_xdp_output
*
*  Write raw *data* blob into a special BPF perf event held by
*  *map* of type **BPF_MAP_TYPE_PERF_EVENT_ARRAY**. This perf
*  event must have the following
 attributes: **PERF_SAMPLE_RAW**
*  as **sample_type**, **PERF_TYPE_SOFTWARE** as **type**, and
*  **PERF_COUNT_SW_BPF_OUTPUT** as **config**.
*
*  The *flags* are used to indicate the index in *map* for which
*  the value must be put, masked with **BPF_F_INDEX_MASK**.
*  Alternatively, *flags* can be set to **BPF_F_CURRENT_CPU**
*  to indicate that the index of the current CPU core should be
*  used.
*
*  The value to write, of *size*, is passed through eBPF stack and
*  pointed by *data*.
*
*  *ctx* is a pointer to in-kernel struct xdp_buff.
*
*  This helper is similar to **bpf_perf_eventoutput**\ () but
*  restricted to raw_tracepoint bpf programs.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_output)(void *ctx, void *map, __u64 flags, void *data, __u64 size) = (void *) 121;

/*
* bpf_get_netns_cookie
*
*  Retrieve the cookie (generated by the kernel) of the network
*  namespace the input *ctx* is
 associated with. The network
*  namespace cookie remains stable for its lifetime and provides
*  a global identifier that can be assumed unique. If *ctx* is
*  NULL, then the helper returns the cookie for the initial
*  network namespace. The cookie itself is very similar to that
*  of **bpf_get_socket_cookie**\ () helper, but for network
*  namespaces instead of sockets.
*
* Returns
*  A 8-byte long opaque number.
*/
static __u64 (* const bpf_get_netns_cookie)(void *ctx) = (void *) 122;
```

```
/*
* bpf_get_current_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of the cgroup associated
*  with the current task at the *ancestor_level*. The root cgroup
*  is at *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with the current task, then return value will be the
*  same as that of **bpf_get_current_cgroup_id**\ ().
*
*  The helper is useful to implement policies based on cgroups
 *  that are upper in hierarchy than immediate cgroup associated
*  with the current task.
*
*  The format of returned id and helper limitations are same as in
*  **bpf_get_current_cgroup_id**\ ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_get_current_ancestor_cgroup_id)(int ancestor_level) = (void *) 123;

/*
* bpf_sk_assign
*
*  Helper is overloaded depending on BPF program type. This
*  description applies to **BPF_PROG_TYPE_SCHED_CLS** and
*  **BPF_PROG_TYPE_SCHED_ACT** programs.
*
*  Assign the *sk* to the *skb*. When combined with appropriate
*  routing configuration to receive the packet towards the socket,
*  will cause *skb* to be delivered to the specified socket.
*  Subsequent redirection of *skb* via  **bpf_redirect**\ (),
*  **bpf_clone_redirect**\ () or other methods outside of BPF may
*  interfere with successful delivery to the socket.
*
*  This operation is only valid from TC ingress
 path.
*
*  The *flags* argument must be zero.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EINVAL** if specified *flags* are not supported.
*
*  **-ENOENT** if the socket is unavailable for assignment.
*
```

```
*  **-ENETUNREACH** if the socket is unreachable (wrong netns).
*
*  **-EOPNOTSUPP** if the operation is not supported, for example
*  a call from outside of TC ingress.
*/
static long (* const bpf_sk_assign)(void *ctx, void *sk, __u64 flags) = (void *) 124;

/*
* bpf_ktime_get_boot_ns
*
*  Return the time elapsed since system boot, in nanoseconds.
*  Does include the time the system was suspended.
*  See: **clock_gettime**\ (**CLOCK_BOOTTIME**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_boot_ns)(void) = (void *) 125;

/*
* bpf_seq_printf
*
*  **bpf_seq_printf**\ () uses seq_file **seq_printf**\ () to print
*  out the format string.
*  The *m* represents the seq_file. The *fmt* and *fmt_size*
 are for
*  the format string itself. The *data* and *data_len* are format string
*  arguments. The *data* are a **u64** array and corresponding format string
*  values are stored in the array. For strings and pointers where pointees
*  are accessed, only the pointer values are stored in the *data* array.
*  The *data_len* is the size of *data* in bytes - must be a multiple of 8.
*
*  Formats **%s**, **%p{i,I}{4,6}** requires to read kernel memory.
*  Reading kernel memory may fail due to either invalid address or
*  valid address but requiring a major memory fault. If reading kernel memory
*  fails, the string for **%s** will be an empty string, and the ip
*  address for **%p{i,I}{4,6}** will be 0. Not returning error to
*  bpf program is consistent with what **bpf_trace_printk**\ () does for now.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EBUSY** if per-CPU memory copy buffer is busy, can try again
*  by returning 1 from bpf program.
 *
*  **-EINVAL** if arguments are invalid, or if *fmt* is invalid/unsupported.
*
*  **-E2BIG** if *fmt* contains too many format specifiers.
```

```
*
*  **-EOVERFLOW** if an overflow happened: The same object will be tried again.
*/
static long (* const bpf_seq_printf)(struct seq_file *m, const char *fmt, __u32 fmt_size, const void *data, __u32
data_len) = (void *) 126;

/*
* bpf_seq_write
*
*  **bpf_seq_write**\ () uses seq_file **seq_write**\ () to write the data.
*  The *m* represents the seq_file. The *data* and *len* represent the
*  data to write in bytes.
*
* Returns
*  0 on success, or a negative error in case of failure:
*
*  **-EOVERFLOW** if an overflow happened: The same object will be tried again.
*/
static long (* const bpf_seq_write)(struct seq_file *m, const void *data, __u32 len) = (void *) 127;

/*
* bpf_sk_cgroup_id
*
*  Return the cgroup v2 id of the socket *sk*.
*
*  *sk* must be a non-**NULL** pointer to a socket, e.g. one
*  returned from **bpf_sk_lookup_xxx**\
 (),
*  **bpf_sk_fullsock**\ (), etc. The format of returned id is
*  same as in **bpf_skb_cgroup_id**\ ().
*
*  This helper is available only if the kernel was compiled with
*  the **CONFIG_SOCK_CGROUP_DATA** configuration option.
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_sk_cgroup_id)(void *sk) = (void *) 128;

/*
* bpf_sk_ancestor_cgroup_id
*
*  Return id of cgroup v2 that is ancestor of cgroup associated
*  with the *sk* at the *ancestor_level*.  The root cgroup is at
*  *ancestor_level* zero and each step down the hierarchy
*  increments the level. If *ancestor_level* == level of cgroup
*  associated with *sk*, then return value will be same as that
*  of **bpf_sk_cgroup_id**\ ().
```

```
*
*  The helper is useful to implement policies based on cgroups
*  that are upper in hierarchy than immediate cgroup associated
*  with *sk*.
*
*  The format of returned id and helper limitations are
 same as in
*  **bpf_sk_cgroup_id**\ ().
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64 (* const bpf_sk_ancestor_cgroup_id)(void *sk, int ancestor_level) = (void *) 129;

/*
* bpf_ringbuf_output
*
*  Copy *size* bytes from *data* into a ring buffer *ringbuf*.
*  If **BPF_RB_NO_WAKEUP** is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  An adaptive notification is a notification sent whenever the user-space
*  process has caught up and consumed all available payloads. In case the user-space
*  process is still processing a previous payload, then no notification is needed
*  as it will process the newly added payload automatically.
*
* Returns
*  0 on success, or a negative
 error in case of failure.
*/
static long (* const bpf_ringbuf_output)(void *ringbuf, void *data, __u64 size, __u64 flags) = (void *) 130;

/*
* bpf_ringbuf_reserve
*
*  Reserve *size* bytes of payload in a ring buffer *ringbuf*.
*  *flags* must be 0.
*
* Returns
*  Valid pointer with *size* bytes of memory available; NULL,
*  otherwise.
*/
static void *(* const bpf_ringbuf_reserve)(void *ringbuf, __u64 size, __u64 flags) = (void *) 131;
```

```
/*
* bpf_ringbuf_submit
*
*  Submit reserved ring buffer sample, pointed to by *data*.
*  If **BPF_RB_NO_WAKEUP** is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  See 'bpf_ringbuf_output()' for the definition of adaptive notification.
*
* Returns
*  Nothing. Always succeeds.
*/
static
 void (* const bpf_ringbuf_submit)(void *data, __u64 flags) = (void *) 132;

/*
* bpf_ringbuf_discard
*
*  Discard reserved ring buffer sample, pointed to by *data*.
*  If **BPF_RB_NO_WAKEUP** is specified in *flags*, no notification
*  of new data availability is sent.
*  If **BPF_RB_FORCE_WAKEUP** is specified in *flags*, notification
*  of new data availability is sent unconditionally.
*  If **0** is specified in *flags*, an adaptive notification
*  of new data availability is sent.
*
*  See 'bpf_ringbuf_output()' for the definition of adaptive notification.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_discard)(void *data, __u64 flags) = (void *) 133;

/*
* bpf_ringbuf_query
*
*  Query various characteristics of provided ring buffer. What
*  exactly is queries is determined by *flags*:
*
*  * **BPF_RB_AVAIL_DATA**: Amount of data not yet consumed.
*  * **BPF_RB_RING_SIZE**: The size of ring buffer.
*  * **BPF_RB_CONS_POS**:
 Consumer position (can wrap around).
*  * **BPF_RB_PROD_POS**: Producer(s) position (can wrap around).
```

```
*
*  Data returned is just a momentary snapshot of actual values
*  and could be inaccurate, so this facility should be used to
*  power heuristics and for reporting, not to make 100% correct
*  calculation.
*
* Returns
*  Requested value, or 0, if *flags* are not recognized.
*/
static __u64 (* const bpf_ringbuf_query)(void *ringbuf, __u64 flags) = (void *) 134;

/*
* bpf_csum_level
*
*  Change the skbs checksum level by one layer up or down, or
*  reset it entirely to none in order to have the stack perform
*  checksum validation. The level is applicable to the following
*  protocols: TCP, UDP, GRE, SCTP, FCOE. For example, a decap of
*  | ETH | IP | UDP | GUE | IP | TCP | into | ETH | IP | TCP |
*  through **bpf_skb_adjust_room**\ () helper with passing in
*  **BPF_F_ADJ_ROOM_NO_CSUM_RESET** flag would require one call
*  to **bpf_csum_level**\ () with **BPF_CSUM_LEVEL_DEC**
 since
*  the UDP header is removed. Similarly, an encap of the latter
*  into the former could be accompanied by a helper call to
*  **bpf_csum_level**\ () with **BPF_CSUM_LEVEL_INC** if the
*  skb is still intended to be processed in higher layers of the
*  stack instead of just egressing at tc.
*
*  There are three supported level settings at this time:
*
*  * **BPF_CSUM_LEVEL_INC**: Increases skb->csum_level for skbs
*    with CHECKSUM_UNNECESSARY.
*  * **BPF_CSUM_LEVEL_DEC**: Decreases skb->csum_level for skbs
*    with CHECKSUM_UNNECESSARY.
*  * **BPF_CSUM_LEVEL_RESET**: Resets skb->csum_level to 0 and
*    sets CHECKSUM_NONE to force checksum validation by the stack.
*  * **BPF_CSUM_LEVEL_QUERY**: No-op, returns the current
*    skb->csum_level.
*
* Returns
*  0 on success, or a negative error in case of failure. In the
*  case of **BPF_CSUM_LEVEL_QUERY**, the current skb->csum_level
*  is returned or the error code -EACCES in case the skb is
 not
*  subject to CHECKSUM_UNNECESSARY.
*/
static long (* const bpf_csum_level)(struct __sk_buff *skb, __u64 level) = (void *) 135;
```

```
/*
* bpf_skc_to_tcp6_sock
*
*  Dynamically cast a *sk* pointer to a *tcp6_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp6_sock *(* const bpf_skc_to_tcp6_sock)(void *sk) = (void *) 136;

/*
* bpf_skc_to_tcp_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_sock *(* const bpf_skc_to_tcp_sock)(void *sk) = (void *) 137;

/*
* bpf_skc_to_tcp_timewait_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_timewait_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_timewait_sock *(* const bpf_skc_to_tcp_timewait_sock)(void *sk) = (void *) 138;

/*
* bpf_skc_to_tcp_request_sock
*
*  Dynamically cast a *sk* pointer to a *tcp_request_sock* pointer.
 *
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct tcp_request_sock *(* const bpf_skc_to_tcp_request_sock)(void *sk) = (void *) 139;

/*
* bpf_skc_to_udp6_sock
*
*  Dynamically cast a *sk* pointer to a *udp6_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
```

```
*/
static struct udp6_sock *(* const bpf_skc_to_udp6_sock)(void *sk) = (void *) 140;

/*
* bpf_get_task_stack
*
*  Return a user or a kernel stack in bpf program provided buffer.
*  Note: the user stack will only be populated if the *task* is
*  the current task; all other tasks will return -EOPNOTSUPP.
*  To achieve this, the helper needs *task*, which is a valid
*  pointer to **struct task_struct**. To store the stacktrace, the
*  bpf program provides *buf* with a nonnegative *size*.
*
*  The last argument, *flags*, holds the number of stack frames to
*  skip (from 0 to 255), masked with
*  **BPF_F_SKIP_FIELD_MASK**. The next bits can be used
 to set
*  the following flags:
*
*  **BPF_F_USER_STACK**
*   Collect a user space stack instead of a kernel stack.
*   The *task* must be the current task.
*  **BPF_F_USER_BUILD_ID**
*   Collect buildid+offset instead of ips for user stack,
*   only valid if **BPF_F_USER_STACK** is also specified.
*
*  **bpf_get_task_stack**\ () can collect up to
*  **PERF_MAX_STACK_DEPTH** both kernel and user frames, subject
*  to sufficient large buffer size. Note that
*  this limit can be controlled with the **sysctl** program, and
*  that it should be manually increased in order to profile long
*  user stacks (such as stacks for Java programs). To do so, use:
*
*  ::
*
*   # sysctl kernel.perf_event_max_stack=<new value>
*
* Returns
*  The non-negative copied *buf* length equal to or less than
*  *size* on success, or a negative error in case of failure.
*/
static long (* const bpf_get_task_stack)(struct task_struct *task, void *buf, __u32 size, __u64 flags) = (void *) 141;

/*
 * bpf_load_hdr_opt
*
*  Load header option.  Support reading a particular TCP header
*  option for bpf program (**BPF_PROG_TYPE_SOCK_OPS**).
```

```
*
*  If *flags* is 0, it will search the option from the
*  *skops*\ **->skb_data**.  The comment in **struct bpf_sock_ops**
*  has details on what skb_data contains under different
*  *skops*\ **->op**.
*
*  The first byte of the *searchby_res* specifies the
*  kind that it wants to search.
*
*  If the searching kind is an experimental kind
*  (i.e. 253 or 254 according to RFC6994).  It also
*  needs to specify the "magic" which is either
*  2 bytes or 4 bytes.  It then also needs to
*  specify the size of the magic by using
*  the 2nd byte which is "kind-length" of a TCP
*  header option and the "kind-length" also
*  includes the first 2 bytes "kind" and "kind-length"
*  itself as a normal TCP header option also does.
*
*  For example, to search experimental kind 254 with
*  2 byte magic 0xeB9F, the searchby_res should
 be
*  [ 254, 4, 0xeB, 0x9F, 0, 0, .... 0 ].
*
*  To search for the standard window scale option (3),
*  the *searchby_res* should be [ 3, 0, 0, .... 0 ].
*  Note, kind-length must be 0 for regular option.
*
*  Searching for No-Op (0) and End-of-Option-List (1) are
*  not supported.
*
*  *len* must be at least 2 bytes which is the minimal size
*  of a header option.
*
*  Supported flags:
*
*  * **BPF_LOAD_HDR_OPT_TCP_SYN** to search from the
*    saved_syn packet or the just-received syn packet.
*
*
* Returns
*  > 0 when found, the header option is copied to *searchby_res*.
*  The return value is the total length copied. On failure, a
*  negative error code is returned:
*
*  **-EINVAL** if a parameter is invalid.
*
*  **-ENOMSG** if the option is not found.
```

```
*
*  **-ENOENT** if no syn packet is available when
*  **BPF_LOAD_HDR_OPT_TCP_SYN** is used.
*
*  **-ENOSPC** if there is not enough space.  Only *len* number of
*  bytes are copied.
*
*  **-EFAULT**
 on failure to parse the header options in the
*  packet.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_load_hdr_opt)(struct bpf_sock_ops *skops, void *searchby_res, __u32 len, __u64 flags) =
(void *) 142;

/*
* bpf_store_hdr_opt
*
*  Store header option.  The data will be copied
*  from buffer *from* with length *len* to the TCP header.
*
*  The buffer *from* should have the whole option that
*  includes the kind, kind-length, and the actual
*  option data.  The *len* must be at least kind-length
*  long.  The kind-length does not have to be 4 byte
*  aligned.  The kernel will take care of the padding
*  and setting the 4 bytes aligned value to th->doff.
*
*  This helper will check for duplicated option
*  by searching the same option in the outgoing skb.
*
*  This helper can only be called during
*  **BPF_SOCK_OPS_WRITE_HDR_OPT_CB**.
*
*
* Returns
*  0 on success, or negative error in case
 of failure:
*
*  **-EINVAL** If param is invalid.
*
*  **-ENOSPC** if there is not enough space in the header.
*  Nothing has been written
*
*  **-EEXIST** if the option already exists.
*
```

```
*  **-EFAULT** on failure to parse the existing header options.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_store_hdr_opt)(struct bpf_sock_ops *skops, const void *from, __u32 len, __u64 flags) =
(void *) 143;

/*
* bpf_reserve_hdr_opt
*
*  Reserve *len* bytes for the bpf header option.  The
*  space will be used by **bpf_store_hdr_opt**\ () later in
*  **BPF_SOCK_OPS_WRITE_HDR_OPT_CB**.
*
*  If **bpf_reserve_hdr_opt**\ () is called multiple times,
*  the total number of bytes will be reserved.
*
*  This helper can only be called during
*  **BPF_SOCK_OPS_HDR_OPT_LEN_CB**.
*
*
* Returns
*  0 on success, or negative error in case of failure:
*
*  **-EINVAL** if a parameter is invalid.
*
*  **-ENOSPC** if
 there is not enough space in the header.
*
*  **-EPERM** if the helper cannot be used under the current
*  *skops*\ **->op**.
*/
static long (* const bpf_reserve_hdr_opt)(struct bpf_sock_ops *skops, __u32 len, __u64 flags) = (void *) 144;

/*
* bpf_inode_storage_get
*
*  Get a bpf_local_storage from an *inode*.
*
*  Logically, it could be thought of as getting the value from
*  a *map* with *inode* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *inode*) except this
*  helper enforces the key must be an inode and the map must also
*  be a **BPF_MAP_TYPE_INODE_STORAGE**.
*
*  Underneath, the value is stored locally at *inode* instead of
```

```
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf_local_storage residing at *inode*.
*
*  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used
 such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf_local_storage.  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
*
* Returns
*  A bpf_local_storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf_local_storage.
*/
static void *(* const bpf_inode_storage_get)(void *map, void *inode, void *value, __u64 flags) = (void *) 145;

/*
* bpf_inode_storage_delete
*
*  Delete a bpf_local_storage from an *inode*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf_local_storage cannot be found.
*/
static int (* const bpf_inode_storage_delete)(void *map, void *inode) = (void *) 146;

/*
* bpf_d_path
*
*  Return full path for given **struct path** object, which
*  needs to be the kernel BTF *path* object. The path is
*  returned in the provided
 buffer *buf* of size *sz* and
*  is zero terminated.
*
*
* Returns
*  On success, the strictly positive length of the string,
*  including the trailing NUL character. On error, a negative
*  value.
*/
static long (* const bpf_d_path)(struct path *path, char *buf, __u32 sz) = (void *) 147;
```

```
/*
* bpf_copy_from_user
*
*  Read *size* bytes from user space address *user_ptr* and store
*  the data in *dst*. This is a wrapper of **copy_from_user**\ ().
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_copy_from_user)(void *dst, __u32 size, const void *user_ptr) = (void *) 148;

/*
* bpf_snprintf_btf
*
*  Use BTF to store a string representation of *ptr*->ptr in *str*,
*  using *ptr*->type_id.  This value should specify the type
*  that *ptr*->ptr points to. LLVM __builtin_btf_type_id(type, 1)
*  can be used to look up vmlinux BTF type ids. Traversing the
*  data structure using BTF, the type information and values are
*  stored
 in the first *str_size* - 1 bytes of *str*.  Safe copy of
*  the pointer data is carried out to avoid kernel crashes during
*  operation.  Smaller types can use string space on the stack;
*  larger programs can use map data to store the string
*  representation.
*
*  The string can be subsequently shared with userspace via
*  bpf_perf_event_output() or ring buffer interfaces.
*  bpf_trace_printk() is to be avoided as it places too small
*  a limit on string size to be useful.
*
*  *flags* is a combination of
*
*  **BTF_F_COMPACT**
*   no formatting around type information
*  **BTF_F_NONAME**
*   no struct/union member names/types
*  **BTF_F_PTR_RAW**
*   show raw (unobfuscated) pointer values;
*   equivalent to printk specifier %px.
*  **BTF_F_ZERO**
*   show zero-valued struct/union members; they
*   are not displayed by default
*
*
* Returns
*  The number of bytes that were written (or would have been
```

```
*  written if output had to be truncated due to string
 size),
*  or a negative error in cases of failure.
*/
static long (* const bpf_snprintf_btf)(char *str, __u32 str_size, struct btf_ptr *ptr, __u32 btf_ptr_size, __u64 flags) =
(void *) 149;

/*
* bpf_seq_printf_btf
*
*  Use BTF to write to seq_write a string representation of
*  *ptr*->ptr, using *ptr*->type_id as per bpf_snprintf_btf().
*  *flags* are identical to those used for bpf_snprintf_btf.
*
* Returns
*  0 on success or a negative error in case of failure.
*/
static long (* const bpf_seq_printf_btf)(struct seq_file *m, struct btf_ptr *ptr, __u32 ptr_size, __u64 flags) = (void
*) 150;

/*
* bpf_skb_cgroup_classid
*
*  See **bpf_get_cgroup_classid**\ () for the main description.
*  This helper differs from **bpf_get_cgroup_classid**\ () in that
*  the cgroup v1 net_cls class is retrieved only from the *skb*'s
*  associated socket instead of the current process.
*
* Returns
*  The id is returned or 0 in case the id could not be retrieved.
*/
static __u64
 (* const bpf_skb_cgroup_classid)(struct __sk_buff *skb) = (void *) 151;

/*
* bpf_redirect_neigh
*
*  Redirect the packet to another net device of index *ifindex*
*  and fill in L2 addresses from neighboring subsystem. This helper
*  is somewhat similar to **bpf_redirect**\ (), except that it
*  populates L2 addresses as well, meaning, internally, the helper
*  relies on the neighbor lookup for the L2 address of the nexthop.
*
*  The helper will perform a FIB lookup based on the skb's
*  networking header to get the address of the next hop, unless
*  this is supplied by the caller in the *params* argument. The
*  *plen* argument indicates the len of *params* and should be set
*  to 0 if *params* is NULL.
```

```
*
*  The *flags* argument is reserved and must be 0. The helper is
*  currently only supported for tc BPF program types, and enabled
*  for IPv4 and IPv6 protocols.
*
* Returns
*  The helper returns **TC_ACT_REDIRECT** on success or
*  **TC_ACT_SHOT** on error.
*/
static
 long (* const bpf_redirect_neigh)(__u32 ifindex, struct bpf_redir_neigh *params, int plen, __u64 flags) = (void *)
152;

/*
* bpf_per_cpu_ptr
*
*  Take a pointer to a percpu ksym, *percpu_ptr*, and return a
*  pointer to the percpu kernel variable on *cpu*. A ksym is an
*  extern variable decorated with '__ksym'. For ksym, there is a
*  global var (either static or global) defined of the same name
*  in the kernel. The ksym is percpu if the global var is percpu.
*  The returned pointer points to the global percpu var on *cpu*.
*
*  bpf_per_cpu_ptr() has the same semantic as per_cpu_ptr() in the
*  kernel, except that bpf_per_cpu_ptr() may return NULL. This
*  happens if *cpu* is larger than nr_cpu_ids. The caller of
*  bpf_per_cpu_ptr() must check the returned value.
*
* Returns
*  A pointer pointing to the kernel percpu variable on *cpu*, or
*  NULL, if *cpu* is invalid.
*/
static void *(* const bpf_per_cpu_ptr)(const void *percpu_ptr, __u32 cpu) = (void *)
 153;

/*
* bpf_this_cpu_ptr
*
*  Take a pointer to a percpu ksym, *percpu_ptr*, and return a
*  pointer to the percpu kernel variable on this cpu. See the
*  description of 'ksym' in **bpf_per_cpu_ptr**\ ().
*
*  bpf_this_cpu_ptr() has the same semantic as this_cpu_ptr() in
*  the kernel. Different from **bpf_per_cpu_ptr**\ (), it would
*  never return NULL.
*
* Returns
*  A pointer pointing to the kernel percpu variable on this cpu.
```

```
*/
static void *(* const bpf_this_cpu_ptr)(const void *percpu_ptr) = (void *) 154;

/*
* bpf_redirect_peer
*
*  Redirect the packet to another net device of index *ifindex*.
*  This helper is somewhat similar to **bpf_redirect**\ (), except
*  that the redirection happens to the *ifindex*' peer device and
*  the netns switch takes place from ingress to ingress without
*  going through the CPU's backlog queue.
*
*  The *flags* argument is reserved and must be 0. The helper is
*  currently only supported for tc BPF program types at the
 *  ingress hook and for veth and netkit target device types. The
*  peer device must reside in a different network namespace.
*
* Returns
*  The helper returns **TC_ACT_REDIRECT** on success or
*  **TC_ACT_SHOT** on error.
*/
static long (* const bpf_redirect_peer)(__u32 ifindex, __u64 flags) = (void *) 155;

/*
* bpf_task_storage_get
*
*  Get a bpf_local_storage from the *task*.
*
*  Logically, it could be thought of as getting the value from
*  a *map* with *task* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *task*) except this
*  helper enforces the key must be a task_struct and the map must also
*  be a **BPF_MAP_TYPE_TASK_STORAGE**.
*
*  Underneath, the value is stored locally at *task* instead of
*  the *map*.  The *map* is used as the bpf-local-storage
*  "type". The bpf-local-storage "type" (i.e. the *map*) is
*  searched against all bpf_local_storage residing at *task*.
*
*
  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf_local_storage.  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
*
```

```
* Returns
*  A bpf_local_storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf_local_storage.
*/
static void *(* const bpf_task_storage_get)(void *map, struct task_struct *task, void *value, __u64 flags) = (void *)
156;

/*
* bpf_task_storage_delete
*
*  Delete a bpf_local_storage from a *task*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf_local_storage cannot be found.
*/
static long (* const bpf_task_storage_delete)(void *map, struct task_struct *task) = (void *) 157;

/*
* bpf_get_current_task_btf
*
*  Return a BTF pointer to the "current"
 task.
*  This pointer can also be used in helpers that accept an
*  *ARG_PTR_TO_BTF_ID* of type *task_struct*.
*
* Returns
*  Pointer to the current task.
*/
static struct task_struct *(* const bpf_get_current_task_btf)(void) = (void *) 158;

/*
* bpf_bprm_opts_set
*
*  Set or clear certain options on *bprm*:
*
*  **BPF_F_BPRM_SECUREEXEC** Set the secureexec bit
*  which sets the **AT_SECURE** auxv for glibc. The bit
*  is cleared if the flag is not specified.
*
* Returns
*  **-EINVAL** if invalid *flags* are passed, zero otherwise.
*/
static long (* const bpf_bprm_opts_set)(struct linux_binprm *bprm, __u64 flags) = (void *) 159;
```

```
/*
* bpf_ktime_get_coarse_ns
*
*  Return a coarse-grained version of the time elapsed since
*  system boot, in nanoseconds. Does not include time the system
*  was suspended.
*
*  See: **clock_gettime**\ (**CLOCK_MONOTONIC_COARSE**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_coarse_ns)(void) = (void *)
 160;

/*
* bpf_ima_inode_hash
*
*  Returns the stored IMA hash of the *inode* (if it's available).
*  If the hash is larger than *size*, then only *size*
*  bytes will be copied to *dst*
*
* Returns
*  The **hash_algo** is returned on success,
*  **-EOPNOTSUPP** if IMA is disabled or **-EINVAL** if
*  invalid arguments are passed.
*/
static long (* const bpf_ima_inode_hash)(struct inode *inode, void *dst, __u32 size) = (void *) 161;

/*
* bpf_sock_from_file
*
*  If the given file represents a socket, returns the associated
*  socket.
*
* Returns
*  A pointer to a struct socket on success or NULL if the file is
*  not a socket.
*/
static struct socket *(* const bpf_sock_from_file)(struct file *file) = (void *) 162;

/*
* bpf_check_mtu
*
*  Check packet size against exceeding MTU of net device (based
*  on *ifindex*).  This helper will likely be used in combination
*  with helpers that adjust/change the packet size.
*
```

```
*  The argument *len_diff* can be used for
 querying with a planned
*  size change. This allows to check MTU prior to changing packet
*  ctx. Providing a *len_diff* adjustment that is larger than the
*  actual packet size (resulting in negative packet size) will in
*  principle not exceed the MTU, which is why it is not considered
*  a failure.  Other BPF helpers are needed for performing the
*  planned size change; therefore the responsibility for catching
*  a negative packet size belongs in those helpers.
*
*  Specifying *ifindex* zero means the MTU check is performed
*  against the current net device.  This is practical if this isn't
*  used prior to redirect.
*
*  On input *mtu_len* must be a valid pointer, else verifier will
*  reject BPF program.  If the value *mtu_len* is initialized to
*  zero then the ctx packet size is use.  When value *mtu_len* is
*  provided as input this specify the L3 length that the MTU check
*  is done against. Remember XDP and TC length operate at L2, but
*  this value is L3
 as this correlate to MTU and IP-header tot_len
*  values which are L3 (similar behavior as bpf_fib_lookup).
*
*  The Linux kernel route table can configure MTUs on a more
*  specific per route level, which is not provided by this helper.
*  For route level MTU checks use the **bpf_fib_lookup**\ ()
*  helper.
*
*  *ctx* is either **struct xdp_md** for XDP programs or
*  **struct sk_buff** for tc cls_act programs.
*
*  The *flags* argument can be a combination of one or more of the
*  following values:
*
*  **BPF_MTU_CHK_SEGS**
*   This flag will only works for *ctx* **struct sk_buff**.
*   If packet context contains extra packet segment buffers
*   (often knows as GSO skb), then MTU check is harder to
*   check at this point, because in transmit path it is
*   possible for the skb packet to get re-segmented
*   (depending on net device features).  This could still be
*   a MTU violation, so this flag enables performing MTU
*   check against segments, with a different
 violation
*   return code to tell it apart. Check cannot use len_diff.
*
*  On return *mtu_len* pointer contains the MTU value of the net
*  device.  Remember the net device configured MTU is the L3 size,
```

```
*  which is returned here and XDP and TC length operate at L2.
*  Helper take this into account for you, but remember when using
*  MTU value in your BPF-code.
*
*
* Returns
*  * 0 on success, and populate MTU value in *mtu_len* pointer.
*
*  * < 0 if any input argument is invalid (*mtu_len* not updated)
*
*  MTU violations return positive values, but also populate MTU
*  value in *mtu_len* pointer, as this can be needed for
*  implementing PMTU handing:
*
*  * **BPF_MTU_CHK_RET_FRAG_NEEDED**
*  * **BPF_MTU_CHK_RET_SEGS_TOOBIG**
*/
static long (* const bpf_check_mtu)(void *ctx, __u32 ifindex, __u32 *mtu_len, __s32 len_diff, __u64 flags) = (void
*) 163;

/*
* bpf_for_each_map_elem
*
*  For each element in **map**, call **callback_fn** function with
*  **map**,
 **callback_ctx** and other map-specific parameters.
*  The **callback_fn** should be a static function and
*  the **callback_ctx** should be a pointer to the stack.
*  The **flags** is used to control certain aspects of the helper.
*  Currently, the **flags** must be 0.
*
*  The following are a list of supported map types and their
*  respective expected callback signatures:
*
*  BPF_MAP_TYPE_HASH, BPF_MAP_TYPE_PERCPU_HASH,
*  BPF_MAP_TYPE_LRU_HASH, BPF_MAP_TYPE_LRU_PERCPU_HASH,
*  BPF_MAP_TYPE_ARRAY, BPF_MAP_TYPE_PERCPU_ARRAY
*
*  long (\*callback_fn)(struct bpf_map \*map, const void \*key, void \*value, void \*ctx);
*
*  For per_cpu maps, the map_value is the value on the cpu where the
*  bpf_prog is running.
*
*  If **callback_fn** return 0, the helper will continue to the next
*  element. If return value is 1, the helper will skip the rest of
*  elements and return. Other return values are not used now.
*
*
```

```
* Returns
*  The number of traversed map elements
 for success, **-EINVAL** for
*  invalid **flags**.
*/
static long (* const bpf_for_each_map_elem)(void *map, void *callback_fn, void *callback_ctx, __u64 flags) =
(void *) 164;

/*
* bpf_snprintf
*
*  Outputs a string into the **str** buffer of size **str_size**
*  based on a format string stored in a read-only map pointed by
*  **fmt**.
*
*  Each format specifier in **fmt** corresponds to one u64 element
*  in the **data** array. For strings and pointers where pointees
*  are accessed, only the pointer values are stored in the *data*
*  array. The *data_len* is the size of *data* in bytes - must be
*  a multiple of 8.
*
*  Formats **%s** and **%p{i,I}{4,6}** require to read kernel
*  memory. Reading kernel memory may fail due to either invalid
*  address or valid address but requiring a major memory fault. If
*  reading kernel memory fails, the string for **%s** will be an
*  empty string, and the ip address for **%p{i,I}{4,6}** will be 0.
*  Not returning error
 to bpf program is consistent with what
*  **bpf_trace_printk**\ () does for now.
*
*
* Returns
*  The strictly positive length of the formatted string, including
*  the trailing zero character. If the return value is greater than
*  **str_size**, **str** contains a truncated string, guaranteed to
*  be zero-terminated except when **str_size** is 0.
*
*  Or **-EBUSY** if the per-CPU memory copy buffer is busy.
*/
static long (* const bpf_snprintf)(char *str, __u32 str_size, const char *fmt, __u64 *data, __u32 data_len) = (void *)
165;

/*
* bpf_sys_bpf
*
*  Execute bpf syscall with given arguments.
*
* Returns
```

```
*  A syscall result.
*/
static long (* const bpf_sys_bpf)(__u32 cmd, void *attr, __u32 attr_size) = (void *) 166;

/*
* bpf_btf_find_by_name_kind
*
*  Find BTF type with given name and kind in vmlinux BTF or in module's BTFs.
*
* Returns
*  Returns btf_id and btf_obj_fd in lower and upper 32 bits.
*/
static long (* const bpf_btf_find_by_name_kind)(char *name,
 int name_sz, __u32 kind, int flags) = (void *) 167;

/*
* bpf_sys_close
*
*  Execute close syscall for given FD.
*
* Returns
*  A syscall result.
*/
static long (* const bpf_sys_close)(__u32 fd) = (void *) 168;

/*
* bpf_timer_init
*
*  Initialize the timer.
*  First 4 bits of *flags* specify clockid.
*  Only CLOCK_MONOTONIC, CLOCK_REALTIME, CLOCK_BOOTTIME are allowed.
*  All other bits of *flags* are reserved.
*  The verifier will reject the program if *timer* is not from
*  the same *map*.
*
* Returns
*  0 on success.
*  **-EBUSY** if *timer* is already initialized.
*  **-EINVAL** if invalid *flags* are passed.
*  **-EPERM** if *timer* is in a map that doesn't have any user references.
*  The user space should either hold a file descriptor to a map with timers
*  or pin such map in bpffs. When map is unpinned or file descriptor is
*  closed all timers in the map will be cancelled and freed.
*/
static long (* const bpf_timer_init)(struct bpf_timer *timer,
 void *map, __u64 flags) = (void *) 169;

/*
```

```
* bpf_timer_set_callback
*
*  Configure the timer to call *callback_fn* static function.
*
* Returns
*  0 on success.
*  **-EINVAL** if *timer* was not initialized with bpf_timer_init() earlier.
*  **-EPERM** if *timer* is in a map that doesn't have any user references.
*  The user space should either hold a file descriptor to a map with timers
*  or pin such map in bpffs. When map is unpinned or file descriptor is
*  closed all timers in the map will be cancelled and freed.
*/
static long (* const bpf_timer_set_callback)(struct bpf_timer *timer, void *callback_fn) = (void *) 170;

/*
* bpf_timer_start
*
*  Set timer expiration N nanoseconds from the current time. The
*  configured callback will be invoked in soft irq context on some cpu
*  and will not repeat unless another bpf_timer_start() is made.
*  In such case the next invocation can migrate to a different cpu.
*  Since struct bpf_timer is a field inside map element
 the map
*  owns the timer. The bpf_timer_set_callback() will increment refcnt
*  of BPF program to make sure that callback_fn code stays valid.
*  When user space reference to a map reaches zero all timers
*  in a map are cancelled and corresponding program's refcnts are
*  decremented. This is done to make sure that Ctrl-C of a user
*  process doesn't leave any timers running. If map is pinned in
*  bpffs the callback_fn can re-arm itself indefinitely.
*  bpf_map_update/delete_elem() helpers and user space sys_bpf commands
*  cancel and free the timer in the given map element.
*  The map can contain timers that invoke callback_fn-s from different
*  programs. The same callback_fn can serve different timers from
*  different maps if key/value layout matches across maps.
*  Every bpf_timer_set_callback() can have different callback_fn.
*
*  *flags* can be one of:
*
*  **BPF_F_TIMER_ABS**
*   Start the timer in absolute expire value instead of the
*   default relative
 one.
*  **BPF_F_TIMER_CPU_PIN**
*   Timer will be pinned to the CPU of the caller.
*
*
* Returns
```

```
*  0 on success.
*  **-EINVAL** if *timer* was not initialized with bpf_timer_init() earlier
*  or invalid *flags* are passed.
*/
static long (* const bpf_timer_start)(struct bpf_timer *timer, __u64 nsecs, __u64 flags) = (void *) 171;

/*
* bpf_timer_cancel
*
*  Cancel the timer and wait for callback_fn to finish if it was running.
*
* Returns
*  0 if the timer was not active.
*  1 if the timer was active.
*  **-EINVAL** if *timer* was not initialized with bpf_timer_init() earlier.
*  **-EDEADLK** if callback_fn tried to call bpf_timer_cancel() on its
*  own timer which would have led to a deadlock otherwise.
*/
static long (* const bpf_timer_cancel)(struct bpf_timer *timer) = (void *) 172;

/*
* bpf_get_func_ip
*
*  Get address of the traced function (for tracing and kprobe programs).
*
*  When called for kprobe program attached as uprobe it returns
*  probe address
 for both entry and return uprobe.
*
*
* Returns
*  Address of the traced function for kprobe.
*  0 for kprobes placed within the function (not at the entry).
*  Address of the probe for uprobe and return uprobe.
*/
static __u64 (* const bpf_get_func_ip)(void *ctx) = (void *) 173;

/*
* bpf_get_attach_cookie
*
*  Get bpf_cookie value provided (optionally) during the program
*  attachment. It might be different for each individual
*  attachment, even if BPF program itself is the same.
*  Expects BPF program context *ctx* as a first argument.
*
*  Supported for the following program types:
*   - kprobe/uprobe;
*   - tracepoint;
```

```
*   - perf_event.
*
* Returns
*  Value specified by user at BPF link creation/attachment time
*  or 0, if it was not specified.
*/
static __u64 (* const bpf_get_attach_cookie)(void *ctx) = (void *) 174;

/*
* bpf_task_pt_regs
*
*  Get the struct pt_regs associated with **task**.
*
* Returns
*  A pointer to struct pt_regs.
*/
static
 long (* const bpf_task_pt_regs)(struct task_struct *task) = (void *) 175;

/*
* bpf_get_branch_snapshot
*
*  Get branch trace from hardware engines like Intel LBR. The
*  hardware engine is stopped shortly after the helper is
*  called. Therefore, the user need to filter branch entries
*  based on the actual use case. To capture branch trace
*  before the trigger point of the BPF program, the helper
*  should be called at the beginning of the BPF program.
*
*  The data is stored as struct perf_branch_entry into output
*  buffer *entries*. *size* is the size of *entries* in bytes.
*  *flags* is reserved for now and must be zero.
*
*
* Returns
*  On success, number of bytes written to *buf*. On error, a
*  negative value.
*
*  **-EINVAL** if *flags* is not zero.
*
*  **-ENOENT** if architecture does not support branch records.
*/
static long (* const bpf_get_branch_snapshot)(void *entries, __u32 size, __u64 flags) = (void *) 176;

/*
* bpf_trace_vprintk
*
*  Behaves
```

```
 like **bpf_trace_printk**\ () helper, but takes an array of u64
*  to format and can handle more format args as a result.
*
*  Arguments are to be used as in **bpf_seq_printf**\ () helper.
*
* Returns
*  The number of bytes written to the buffer, or a negative error
*  in case of failure.
*/
static long (* const bpf_trace_vprintk)(const char *fmt, __u32 fmt_size, const void *data, __u32 data_len) = (void
*) 177;

/*
* bpf_skc_to_unix_sock
*
*  Dynamically cast a *sk* pointer to a *unix_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct unix_sock *(* const bpf_skc_to_unix_sock)(void *sk) = (void *) 178;

/*
* bpf_kallsyms_lookup_name
*
*  Get the address of a kernel symbol, returned in *res*. *res* is
*  set to 0 if the symbol is not found.
*
* Returns
*  On success, zero. On error, a negative value.
*
*  **-EINVAL** if *flags* is not zero.
*
*  **-EINVAL** if string *name* is not the same size as *name_sz*.
*
 *  **-ENOENT** if symbol is not found.
*
*  **-EPERM** if caller does not have permission to obtain kernel address.
*/
static long (* const bpf_kallsyms_lookup_name)(const char *name, int name_sz, int flags, __u64 *res) = (void *)
179;

/*
* bpf_find_vma
*
*  Find vma of *task* that contains *addr*, call *callback_fn*
*  function with *task*, *vma*, and *callback_ctx*.
*  The *callback_fn* should be a static function and
```

```
*  the *callback_ctx* should be a pointer to the stack.
*  The *flags* is used to control certain aspects of the helper.
*  Currently, the *flags* must be 0.
*
*  The expected callback signature is
*
*  long (\*callback_fn)(struct task_struct \*task, struct vm_area_struct \*vma, void \*callback_ctx);
*
*
* Returns
*  0 on success.
*  **-ENOENT** if *task->mm* is NULL, or no vma contains *addr*.
*  **-EBUSY** if failed to try lock mmap_lock.
*  **-EINVAL** for invalid **flags**.
*/
static long (* const bpf_find_vma)(struct task_struct *task, __u64
 addr, void *callback_fn, void *callback_ctx, __u64 flags) = (void *) 180;

/*
* bpf_loop
*
*  For **nr_loops**, call **callback_fn** function
*  with **callback_ctx** as the context parameter.
*  The **callback_fn** should be a static function and
*  the **callback_ctx** should be a pointer to the stack.
*  The **flags** is used to control certain aspects of the helper.
*  Currently, the **flags** must be 0. Currently, nr_loops is
*  limited to 1 << 23 (~8 million) loops.
*
*  long (\*callback_fn)(u32 index, void \*ctx);
*
*  where **index** is the current index in the loop. The index
*  is zero-indexed.
*
*  If **callback_fn** returns 0, the helper will continue to the next
*  loop. If return value is 1, the helper will skip the rest of
*  the loops and return. Other return values are not used now,
*  and will be rejected by the verifier.
*
*
* Returns
*  The number of loops performed, **-EINVAL** for invalid **flags**,
*  **-E2BIG** if **nr_loops** exceeds the
 maximum number of loops.
*/
static long (* const bpf_loop)(__u32 nr_loops, void *callback_fn, void *callback_ctx, __u64 flags) = (void *) 181;

/*
```

```
* bpf_strncmp
*
*  Do strncmp() between **s1** and **s2**. **s1** doesn't need
*  to be null-terminated and **s1_sz** is the maximum storage
*  size of **s1**. **s2** must be a read-only string.
*
* Returns
*  An integer less than, equal to, or greater than zero
*  if the first **s1_sz** bytes of **s1** is found to be
*  less than, to match, or be greater than **s2**.
*/
static long (* const bpf_strncmp)(const char *s1, __u32 s1_sz, const char *s2) = (void *) 182;

/*
* bpf_get_func_arg
*
*  Get **n**-th argument register (zero based) of the traced function (for tracing programs)
*  returned in **value**.
*
*
* Returns
*  0 on success.
*  **-EINVAL** if n >= argument register count of traced function.
*/
static long (* const bpf_get_func_arg)(void *ctx, __u32 n, __u64 *value) = (void *) 183;

/*
* bpf_get_func_ret
 *
*  Get return value of the traced function (for tracing programs)
*  in **value**.
*
*
* Returns
*  0 on success.
*  **-EOPNOTSUPP** for tracing programs other than BPF_TRACE_FEXIT or BPF_MODIFY_RETURN.
*/
static long (* const bpf_get_func_ret)(void *ctx, __u64 *value) = (void *) 184;

/*
* bpf_get_func_arg_cnt
*
*  Get number of registers of the traced function (for tracing programs) where
*  function arguments are stored in these registers.
*
*
* Returns
*  The number of argument registers of the traced function.
```

```
*/
static long (* const bpf_get_func_arg_cnt)(void *ctx) = (void *) 185;

/*
* bpf_get_retval
*
*  Get the BPF program's return value that will be returned to the upper layers.
*
*  This helper is currently supported by cgroup programs and only by the hooks
*  where BPF program's return value is returned to the userspace via errno.
*
* Returns
*  The BPF program's return value.
*/
static int (* const bpf_get_retval)(void) = (void *) 186;

/*
* bpf_set_retval
 *
*  Set the BPF program's return value that will be returned to the upper layers.
*
*  This helper is currently supported by cgroup programs and only by the hooks
*  where BPF program's return value is returned to the userspace via errno.
*
*  Note that there is the following corner case where the program exports an error
*  via bpf_set_retval but signals success via 'return 1':
*
*   bpf_set_retval(-EPERM);
*   return 1;
*
*  In this case, the BPF program's return value will use helper's -EPERM. This
*  still holds true for cgroup/bind{4,6} which supports extra 'return 3' success case.
*
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static int (* const bpf_set_retval)(int retval) = (void *) 187;

/*
* bpf_xdp_get_buff_len
*
*  Get the total size of a given xdp buff (linear and paged area)
*
* Returns
*  The total size of a given xdp buffer.
*/
static __u64 (* const bpf_xdp_get_buff_len)(struct xdp_md *xdp_md) = (void *)
```

```
 188;

/*
* bpf_xdp_load_bytes
*
*  This helper is provided as an easy way to load data from a
*  xdp buffer. It can be used to load *len* bytes from *offset* from
*  the frame associated to *xdp_md*, into the buffer pointed by
*  *buf*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_load_bytes)(struct xdp_md *xdp_md, __u32 offset, void *buf, __u32 len) = (void *)
189;

/*
* bpf_xdp_store_bytes
*
*  Store *len* bytes from buffer *buf* into the frame
*  associated to *xdp_md*, at *offset*.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_xdp_store_bytes)(struct xdp_md *xdp_md, __u32 offset, void *buf, __u32 len) = (void *)
190;

/*
* bpf_copy_from_user_task
*
*  Read *size* bytes from user space address *user_ptr* in *tsk*'s
*  address space, and stores the data in *dst*. *flags* is not
*  used yet and is provided for future extensibility. This helper
*  can only
 be used by sleepable programs.
*
* Returns
*  0 on success, or a negative error in case of failure. On error
*  *dst* buffer is zeroed out.
*/
static long (* const bpf_copy_from_user_task)(void *dst, __u32 size, const void *user_ptr, struct task_struct *tsk,
__u64 flags) = (void *) 191;

/*
* bpf_skb_set_tstamp
*
*  Change the __sk_buff->tstamp_type to *tstamp_type*
```

```
*  and set *tstamp* to the __sk_buff->tstamp together.
*
*  If there is no need to change the __sk_buff->tstamp_type,
*  the tstamp value can be directly written to __sk_buff->tstamp
*  instead.
*
*  BPF_SKB_TSTAMP_DELIVERY_MONO is the only tstamp that
*  will be kept during bpf_redirect_*().  A non zero
*  *tstamp* must be used with the BPF_SKB_TSTAMP_DELIVERY_MONO
*  *tstamp_type*.
*
*  A BPF_SKB_TSTAMP_UNSPEC *tstamp_type* can only be used
*  with a zero *tstamp*.
*
*  Only IPv4 and IPv6 skb->protocol are supported.
*
*  This function is most useful when it needs to set a
*  mono delivery time
 to __sk_buff->tstamp and then
*  bpf_redirect_*() to the egress of an iface.  For example,
*  changing the (rcv) timestamp in __sk_buff->tstamp at
*  ingress to a mono delivery time and then bpf_redirect_*()
*  to sch_fq@phy-dev.
*
* Returns
*  0 on success.
*  **-EINVAL** for invalid input
*  **-EOPNOTSUPP** for unsupported protocol
*/
static long (* const bpf_skb_set_tstamp)(struct __sk_buff *skb, __u64 tstamp, __u32 tstamp_type) = (void *) 192;

/*
* bpf_ima_file_hash
*
*  Returns a calculated IMA hash of the *file*.
*  If the hash is larger than *size*, then only *size*
*  bytes will be copied to *dst*
*
* Returns
*  The **hash_algo** is returned on success,
*  **-EOPNOTSUPP** if the hash calculation failed or **-EINVAL** if
*  invalid arguments are passed.
*/
static long (* const bpf_ima_file_hash)(struct file *file, void *dst, __u32 size) = (void *) 193;

/*
* bpf_kptr_xchg
*
```

```
*  Exchange kptr at pointer *map_value* with *ptr*, and return the
*  old value.
 *ptr* can be NULL, otherwise it must be a referenced
*  pointer which will be released when this helper is called.
*
* Returns
*  The old value of kptr (which can be NULL). The returned pointer
*  if not NULL, is a reference which must be released using its
*  corresponding release function, or moved into a BPF map before
*  program exit.
*/
static void *(* const bpf_kptr_xchg)(void *map_value, void *ptr) = (void *) 194;

/*
* bpf_map_lookup_percpu_elem
*
*  Perform a lookup in *percpu map* for an entry associated to
*  *key* on *cpu*.
*
* Returns
*  Map value associated to *key* on *cpu*, or **NULL** if no entry
*  was found or *cpu* is invalid.
*/
static void *(* const bpf_map_lookup_percpu_elem)(void *map, const void *key, __u32 cpu) = (void *) 195;

/*
* bpf_skc_to_mptcp_sock
*
*  Dynamically cast a *sk* pointer to a *mptcp_sock* pointer.
*
* Returns
*  *sk* if casting is valid, or **NULL** otherwise.
*/
static struct mptcp_sock *(* const bpf_skc_to_mptcp_sock)(void
 *sk) = (void *) 196;

/*
* bpf_dynptr_from_mem
*
*  Get a dynptr to local memory *data*.
*
*  *data* must be a ptr to a map value.
*  The maximum *size* supported is DYNPTR_MAX_SIZE.
*  *flags* is currently unused.
*
* Returns
*  0 on success, -E2BIG if the size exceeds DYNPTR_MAX_SIZE,
*  -EINVAL if flags is not 0.
```

```
*/
static long (* const bpf_dynptr_from_mem)(void *data, __u32 size, __u64 flags, struct bpf_dynptr *ptr) = (void *)
197;

/*
* bpf_ringbuf_reserve_dynptr
*
*  Reserve *size* bytes of payload in a ring buffer *ringbuf*
*  through the dynptr interface. *flags* must be 0.
*
*  Please note that a corresponding bpf_ringbuf_submit_dynptr or
*  bpf_ringbuf_discard_dynptr must be called on *ptr*, even if the
*  reservation fails. This is enforced by the verifier.
*
* Returns
*  0 on success, or a negative error in case of failure.
*/
static long (* const bpf_ringbuf_reserve_dynptr)(void *ringbuf, __u32 size, __u64 flags, struct bpf_dynptr *ptr) =
 (void *) 198;

/*
* bpf_ringbuf_submit_dynptr
*
*  Submit reserved ring buffer sample, pointed to by *data*,
*  through the dynptr interface. This is a no-op if the dynptr is
*  invalid/null.
*
*  For more information on *flags*, please see
*  'bpf_ringbuf_submit'.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_submit_dynptr)(struct bpf_dynptr *ptr, __u64 flags) = (void *) 199;

/*
* bpf_ringbuf_discard_dynptr
*
*  Discard reserved ring buffer sample through the dynptr
*  interface. This is a no-op if the dynptr is invalid/null.
*
*  For more information on *flags*, please see
*  'bpf_ringbuf_discard'.
*
* Returns
*  Nothing. Always succeeds.
*/
static void (* const bpf_ringbuf_discard_dynptr)(struct bpf_dynptr *ptr, __u64 flags) = (void *) 200;
```

```
/*
* bpf_dynptr_read
*
*  Read *len* bytes from *src* into *dst*, starting from *offset*
*  into *src*.
*  *flags* is currently unused.
*
* Returns
*  0 on success, -E2BIG if *offset*
 + *len* exceeds the length
*  of *src*'s data, -EINVAL if *src* is an invalid dynptr or if
*  *flags* is not 0.
*/
static long (* const bpf_dynptr_read)(void *dst, __u32 len, const struct bpf_dynptr *src, __u32 offset, __u64 flags)
= (void *) 201;

/*
* bpf_dynptr_write
*
*  Write *len* bytes from *src* into *dst*, starting from *offset*
*  into *dst*.
*
*  *flags* must be 0 except for skb-type dynptrs.
*
*  For skb-type dynptrs:
*      *  All data slices of the dynptr are automatically
*         invalidated after **bpf_dynptr_write**\ (). This is
*         because writing may pull the skb and change the
*         underlying packet buffer.
*
*      *  For *flags*, please see the flags accepted by
*         **bpf_skb_store_bytes**\ ().
*
* Returns
*  0 on success, -E2BIG if *offset* + *len* exceeds the length
*  of *dst*'s data, -EINVAL if *dst* is an invalid dynptr or if *dst*
*  is a read-only dynptr or if *flags* is not correct. For skb-type dynptrs,
*  other
 errors correspond to errors returned by **bpf_skb_store_bytes**\ ().
*/
static long (* const bpf_dynptr_write)(const struct bpf_dynptr *dst, __u32 offset, void *src, __u32 len, __u64 flags)
= (void *) 202;

/*
* bpf_dynptr_data
*
*  Get a pointer to the underlying dynptr data.
```

```
*
*  *len* must be a statically known value. The returned data slice
*  is invalidated whenever the dynptr is invalidated.
*
*  skb and xdp type dynptrs may not use bpf_dynptr_data. They should
*  instead use bpf_dynptr_slice and bpf_dynptr_slice_rdwr.
*
* Returns
*  Pointer to the underlying dynptr data, NULL if the dynptr is
*  read-only, if the dynptr is invalid, or if the offset and length
*  is out of bounds.
*/
static void *(* const bpf_dynptr_data)(const struct bpf_dynptr *ptr, __u32 offset, __u32 len) = (void *) 203;

/*
* bpf_tcp_raw_gen_syncookie_ipv4
*
*  Try to issue a SYN cookie for the packet with corresponding
*  IPv4/TCP headers, *iph* and *th*, without depending on a
*  listening
 socket.
*
*  *iph* points to the IPv4 header.
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header (at least
*  **sizeof**\ (**struct tcphdr**)).
*
* Returns
*  On success, lower 32 bits hold the generated SYN cookie in
*  followed by 16 bits which hold the MSS value for that cookie,
*  and the top 16 bits are unused.
*
*  On failure, the returned value is one of the following:
*
*  **-EINVAL** if *th_len* is invalid.
*/
static __s64 (* const bpf_tcp_raw_gen_syncookie_ipv4)(struct iphdr *iph, struct tcphdr *th, __u32 th_len) = (void
*) 204;

/*
* bpf_tcp_raw_gen_syncookie_ipv6
*
*  Try to issue a SYN cookie for the packet with corresponding
*  IPv6/TCP headers, *iph* and *th*, without depending on a
*  listening socket.
*
*  *iph* points to the IPv6 header.
```

```
*
*  *th* points to the start of the TCP header, while *th_len*
*  contains the length of the TCP header (at least
*  **sizeof**\ (**struct tcphdr**)).
 *
* Returns
*  On success, lower 32 bits hold the generated SYN cookie in
*  followed by 16 bits which hold the MSS value for that cookie,
*  and the top 16 bits are unused.
*
*  On failure, the returned value is one of the following:
*
*  **-EINVAL** if *th_len* is invalid.
*
*  **-EPROTONOSUPPORT** if CONFIG_IPV6 is not builtin.
*/
static __s64 (* const bpf_tcp_raw_gen_syncookie_ipv6)(struct ipv6hdr *iph, struct tcphdr *th, __u32 th_len) =
(void *) 205;

/*
* bpf_tcp_raw_check_syncookie_ipv4
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK
*  without depending on a listening socket.
*
*  *iph* points to the IPv4 header.
*
*  *th* points to the TCP header.
*
* Returns
*  0 if *iph* and *th* are a valid SYN cookie ACK.
*
*  On failure, the returned value is one of the following:
*
*  **-EACCES** if the SYN cookie is not valid.
*/
static long (* const bpf_tcp_raw_check_syncookie_ipv4)(struct iphdr *iph, struct tcphdr *th) = (void *) 206;

/*
 * bpf_tcp_raw_check_syncookie_ipv6
*
*  Check whether *iph* and *th* contain a valid SYN cookie ACK
*  without depending on a listening socket.
*
*  *iph* points to the IPv6 header.
*
*  *th* points to the TCP header.
*
```

```
* Returns
*  0 if *iph* and *th* are a valid SYN cookie ACK.
*
*  On failure, the returned value is one of the following:
*
*  **-EACCES** if the SYN cookie is not valid.
*
*  **-EPROTONOSUPPORT** if CONFIG_IPV6 is not builtin.
*/
static long (* const bpf_tcp_raw_check_syncookie_ipv6)(struct ipv6hdr *iph, struct tcphdr *th) = (void *) 207;

/*
* bpf_ktime_get_tai_ns
*
*  A nonsettable system-wide clock derived from wall-clock time but
*  ignoring leap seconds.  This clock does not experience
*  discontinuities and backwards jumps caused by NTP inserting leap
*  seconds as CLOCK_REALTIME does.
*
*  See: **clock_gettime**\ (**CLOCK_TAI**)
*
* Returns
*  Current *ktime*.
*/
static __u64 (* const bpf_ktime_get_tai_ns)(void) = (void *) 208;

/*
 * bpf_user_ringbuf_drain
*
*  Drain samples from the specified user ring buffer, and invoke
*  the provided callback for each such sample:
*
*  long (\*callback_fn)(const struct bpf_dynptr \*dynptr, void \*ctx);
*
*  If **callback_fn** returns 0, the helper will continue to try
*  and drain the next sample, up to a maximum of
*  BPF_MAX_USER_RINGBUF_SAMPLES samples. If the return value is 1,
*  the helper will skip the rest of the samples and return. Other
*  return values are not used now, and will be rejected by the
*  verifier.
*
* Returns
*  The number of drained samples if no error was encountered while
*  draining samples, or 0 if no samples were present in the ring
*  buffer. If a user-space producer was epoll-waiting on this map,
*  and at least one sample was drained, they will receive an event
*  notification notifying them of available space in the ring
*  buffer. If the BPF_RB_NO_WAKEUP flag is passed to this
```

```
*  function, no wakeup notification will
 be sent. If the
*  BPF_RB_FORCE_WAKEUP flag is passed, a wakeup notification will
*  be sent even if no sample was drained.
*
*  On failure, the returned value is one of the following:
*
*  **-EBUSY** if the ring buffer is contended, and another calling
*  context was concurrently draining the ring buffer.
*
*  **-EINVAL** if user-space is not properly tracking the ring
*  buffer due to the producer position not being aligned to 8
*  bytes, a sample not being aligned to 8 bytes, or the producer
*  position not matching the advertised length of a sample.
*
*  **-E2BIG** if user-space has tried to publish a sample which is
*  larger than the size of the ring buffer, or which cannot fit
*  within a struct bpf_dynptr.
*/
static long (* const bpf_user_ringbuf_drain)(void *map, void *callback_fn, void *ctx, __u64 flags) = (void *) 209;

/*
* bpf_cgrp_storage_get
*
*  Get a bpf_local_storage from the *cgroup*.
*
*  Logically, it could be thought of as getting the value
 from
*  a *map* with *cgroup* as the **key**.  From this
*  perspective,  the usage is not much different from
*  **bpf_map_lookup_elem**\ (*map*, **&**\ *cgroup*) except this
*  helper enforces the key must be a cgroup struct and the map must also
*  be a **BPF_MAP_TYPE_CGRP_STORAGE**.
*
*  In reality, the local-storage value is embedded directly inside of the
*  *cgroup* object itself, rather than being located in the
*  **BPF_MAP_TYPE_CGRP_STORAGE** map. When the local-storage value is
*  queried for some *map* on a *cgroup* object, the kernel will perform an
*  O(n) iteration over all of the live local-storage values for that
*  *cgroup* object until the local-storage value for the *map* is found.
*
*  An optional *flags* (**BPF_LOCAL_STORAGE_GET_F_CREATE**) can be
*  used such that a new bpf_local_storage will be
*  created if one does not exist.  *value* can be used
*  together with **BPF_LOCAL_STORAGE_GET_F_CREATE** to specify
*  the initial value of a bpf_local_storage.
  If *value* is
*  **NULL**, the new bpf_local_storage will be zero initialized.
```

```
*
* Returns
*  A bpf_local_storage pointer is returned on success.
*
*  **NULL** if not found or there was an error in adding
*  a new bpf_local_storage.
*/
static void *(* const bpf_cgrp_storage_get)(void *map, struct cgroup *cgroup, void *value, __u64 flags) = (void *)
210;

/*
* bpf_cgrp_storage_delete
*
*  Delete a bpf_local_storage from a *cgroup*.
*
* Returns
*  0 on success.
*
*  **-ENOENT** if the bpf_local_storage cannot be found.
*/
static long (* const bpf_cgrp_storage_delete)(void *map, struct cgroup *cgroup) = (void *) 211;
// Project Calico BPF dataplane programs.
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#ifndef __CALI_ICMP6_H__
#define __CALI_ICMP6_H__

static CALI_BPF_INLINE int icmp_v6_reply(struct cali_tc_ctx *ctx,
    __u8 type, __u8 code, __be32 un)
{
 int ret;

 /* ICMP is on the slow path so we may as well revalidate here to keep calling code
  * simple.  We only need to look at the IP header before we resize the packet. */
 if (skb_refresh_validate_ptrs(ctx, 0)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("ICMP v4 reply: too short\n");
  return -1;
 }

 ipv6_addr_t orig_src;
 ipv6hdr_ip_to_ipv6_addr_t(&orig_src, &ip_hdr(ctx)->saddr);

 /* Trim the packet to the desired length. ICMPv6 requires to keep as
  * much of the packet as fits in the minimal guaranteed MTU.
  *
  * RFC-2460, RFC-4443, min ipv6 MTU and we are going to add a simple
```

```
 * ipv6 header and icmpv6 header.
 */
__u32 len = ctx->skb->len;
if (len
< IP_SIZE + ICMP_SIZE) {
 return -1; /* just to make verifier happy */
}

__u32 max = 1280 - sizeof(struct ipv6hdr) - sizeof(struct icmp6hdr);
if (! CALI_F_L3_DEV) {
 max += ETH_SIZE;
}

if (len > max) {
 len = max;
 CALI_DEBUG("Trimming to %d\n", len);
 int err = bpf_skb_change_tail(ctx->skb, len,  0);
 if (err) {
  CALI_DEBUG("ICMP v6 reply: early bpf_skb_change_tail (len=%d) failed (err=%d)\n", len, err);
  return -1;
 }
}

/* make room for the new IP + ICMP header */
int new_hdrs_len = sizeof(struct ipv6hdr) + sizeof(struct icmp6hdr);
CALI_DEBUG("Inserting %d\n", new_hdrs_len);
ret = bpf_skb_adjust_room(ctx->skb, new_hdrs_len, BPF_ADJ_ROOM_MAC, 0);
if (ret) {
 CALI_DEBUG("ICMP v6 reply: failed to make room\n");
 return -1;
}

len += new_hdrs_len;
CALI_DEBUG("Len after insert %d\n", len);

if (skb_refresh_validate_ptrs(ctx, (CALI_F_L3 ? 0 : ETH_SIZE) + IP_SIZE + ICMP_SIZE)) {
 deny_reason(ctx, CALI_REASON_SHORT);
 CALI_DEBUG("ICMP v6 reply: too short after
making room\n");
 return -1;
}

/* we do not touch ethhdr, we rely on linux to rewrite it after routing
 * XXX we might want to swap MACs and bounce it back from the same device
 */
ip_hdr(ctx)->version = 6;
ip_hdr(ctx)->hop_limit = 255; /* good default */
ip_hdr(ctx)->nexthdr = IPPROTO_ICMPV6;
```

```
ip_hdr(ctx)->payload_len = bpf_htons(len - IP_SIZE - (CALI_F_L3 ? 0 : ETH_SIZE));

ctx->ipheader_len = IP_SIZE;

/* use the host IP of the program that handles the packet */
ipv6_addr_t_to_ipv6hdr_ip(&ip_hdr(ctx)->saddr, (ipv6_addr_t *)&INTF_IP);
ipv6_addr_t_to_ipv6hdr_ip(&ip_hdr(ctx)->daddr, &orig_src);

struct icmp6hdr *icmp = ((void *)ip_hdr(ctx)) + IP_SIZE;

icmp->icmp6_type = type;
icmp->icmp6_code = code;
icmp->icmp6_dataun.un_data32[0] = un;
icmp->icmp6_cksum = 0;

__wsum icmp_csum = 0;
__u32 data[128/4];
int i;
__u32 off = (CALI_F_L3 ? 0 : ETH_SIZE) + IP_SIZE;

for (i = 0; i < 10 && off < len; i++) {
 int sz = 128;
 if (off + sz >= len) {
  sz = len - off;
  __builtin_memset(data,
0, sizeof(data));
 }
 if (sz > 128) {
  sz = 128;
 }
 if (sz <= 0) {
  return -1;
 }
 if (bpf_skb_load_bytes(ctx->skb, off, data, sz)) {
  CALI_DEBUG("icmp v6 reply: packet too short");
  return -1;
 }

 /* csum the whole buffer, it is padded with zeroes */
 icmp_csum = bpf_csum_diff(0, 0, data, 128, icmp_csum);
 off += sz;
}

ret = bpf_l4_csum_replace(ctx->skb,  (CALI_F_L3 ? 0 : ETH_SIZE) + IP_SIZE +
    offsetof(struct icmp6hdr, icmp6_cksum), 0, icmp_csum, 0);
if (ret) {
 CALI_DEBUG("ICMP v6 reply: set icmp csum failed\n");
 return -1;
```

```
 }

 /* we need to make verifier happy again */
 if (skb_refresh_validate_ptrs(ctx, (CALI_F_L3 ? 0 : ETH_SIZE) + IP_SIZE + ICMP_SIZE)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("ICMP v6 reply: too short after making room\n");
  return -1;
 }

 icmp_csum = bpf_csum_diff(0, 0, (__u32 *)&ip_hdr(ctx)->saddr, 16 + 16, 0);

 __u32 pseudo[2];
 pseudo[0] = bpf_htonl(len - (CALI_F_L3 ? 0 : ETH_SIZE) - IP_SIZE);
 pseudo[1]
 = bpf_htonl(IPPROTO_ICMPV6);
 icmp_csum = bpf_csum_diff(0, 0, pseudo, sizeof(pseudo), icmp_csum);

 ret = bpf_l4_csum_replace(ctx->skb,  (CALI_F_L3 ? 0 : ETH_SIZE) + IP_SIZE +
     offsetof(struct icmp6hdr, icmp6_cksum), 0, icmp_csum, BPF_F_PSEUDO_HDR);
 if (ret) {
  CALI_DEBUG("ICMP v6 reply: set icmp csum failed\n");
  return -1;
 }

 CALI_DEBUG("ICMP v6 reply creation succeeded\n");

 return 0;
}

static CALI_BPF_INLINE bool icmp_type_is_err(__u8 type) {
 return type < 128;
}

#endif /* __CALI_ICMP6_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
/* Copyright (c) 2022 Meta Platforms, Inc. and affiliates. */
#ifndef __USDT_BPF_H__
#define __USDT_BPF_H__

#include <linux/errno.h>
#include "bpf_helpers.h"
#include "bpf_tracing.h"

/* Below types and maps are internal implementation details of libbpf's USDT
* support and are subjects to change. Also, bpf_usdt_xxx() API helpers should
* be considered an unstable API as well and might be adjusted based on user
* feedback from using libbpf's USDT support in production.
*/
```

```
/* User can override BPF_USDT_MAX_SPEC_CNT to change default size of internal
* map that keeps track of USDT argument specifications. This might be
* necessary if there are a lot of USDT attachments.
*/
#ifndef BPF_USDT_MAX_SPEC_CNT
#define BPF_USDT_MAX_SPEC_CNT 256
#endif
/* User can override BPF_USDT_MAX_IP_CNT to change default size of internal
* map that keeps track of IP (memory address) mapping to USDT argument
* specification.
* Note, if kernel
 supports BPF cookies, this map is not used and could be
* resized all the way to 1 to save a bit of memory.
*/
#ifndef BPF_USDT_MAX_IP_CNT
#define BPF_USDT_MAX_IP_CNT (4 * BPF_USDT_MAX_SPEC_CNT)
#endif

enum __bpf_usdt_arg_type {
 BPF_USDT_ARG_CONST,
 BPF_USDT_ARG_REG,
 BPF_USDT_ARG_REG_DEREF,
};

struct __bpf_usdt_arg_spec {
 /* u64 scalar interpreted depending on arg_type, see below */
 __u64 val_off;
 /* arg location case, see bpf_udst_arg() for details */
 enum __bpf_usdt_arg_type arg_type;
 /* offset of referenced register within struct pt_regs */
 short reg_off;
 /* whether arg should be interpreted as signed value */
 bool arg_signed;
 /* number of bits that need to be cleared and, optionally,
  * sign-extended to cast arguments that are 1, 2, or 4 bytes
  * long into final 8-byte u64/s64 value returned to user
  */
 char arg_bitshift;
};

/* should match USDT_MAX_ARG_CNT in usdt.c exactly */
#define BPF_USDT_MAX_ARG_CNT 12
struct __bpf_usdt_spec {
 struct __bpf_usdt_arg_spec
 args[BPF_USDT_MAX_ARG_CNT];
 __u64 usdt_cookie;
 short arg_cnt;
```

```
};

struct {
 __uint(type, BPF_MAP_TYPE_ARRAY);
 __uint(max_entries, BPF_USDT_MAX_SPEC_CNT);
 __type(key, int);
 __type(value, struct __bpf_usdt_spec);
} __bpf_usdt_specs SEC(".maps") __weak;

struct {
 __uint(type, BPF_MAP_TYPE_HASH);
 __uint(max_entries, BPF_USDT_MAX_IP_CNT);
 __type(key, long);
 __type(value, __u32);
} __bpf_usdt_ip_to_spec_id SEC(".maps") __weak;

extern const _Bool LINUX_HAS_BPF_COOKIE __kconfig;

static __always_inline
int __bpf_usdt_spec_id(struct pt_regs *ctx)
{
 if (!LINUX_HAS_BPF_COOKIE) {
  long ip = PT_REGS_IP(ctx);
  int *spec_id_ptr;

  spec_id_ptr = bpf_map_lookup_elem(&__bpf_usdt_ip_to_spec_id, &ip);
  return spec_id_ptr ? *spec_id_ptr : -ESRCH;
 }

 return bpf_get_attach_cookie(ctx);
}

/* Return number of USDT arguments defined for currently traced USDT. */
__weak __hidden
int bpf_usdt_arg_cnt(struct pt_regs *ctx)
{
 struct __bpf_usdt_spec *spec;
 int spec_id;

 spec_id = __bpf_usdt_spec_id(ctx);
 if
 (spec_id < 0)
  return -ESRCH;

 spec = bpf_map_lookup_elem(&__bpf_usdt_specs, &spec_id);
 if (!spec)
  return -ESRCH;
```

```
 return spec->arg_cnt;
}

/* Fetch USDT argument #*arg_num* (zero-indexed) and put its value into *res.
* Returns 0 on success; negative error, otherwise.
* On error *res is guaranteed to be set to zero.
*/
__weak __hidden
int bpf_usdt_arg(struct pt_regs *ctx, __u64 arg_num, long *res)
{
 struct __bpf_usdt_spec *spec;
 struct __bpf_usdt_arg_spec *arg_spec;
 unsigned long val;
 int err, spec_id;

 *res = 0;

 spec_id = __bpf_usdt_spec_id(ctx);
 if (spec_id < 0)
  return -ESRCH;

 spec = bpf_map_lookup_elem(&__bpf_usdt_specs, &spec_id);
 if (!spec)
  return -ESRCH;

 if (arg_num >= BPF_USDT_MAX_ARG_CNT)
  return -ENOENT;
 barrier_var(arg_num);
 if (arg_num >= spec->arg_cnt)
  return -ENOENT;

 arg_spec = &spec->args[arg_num];
 switch (arg_spec->arg_type) {
 case BPF_USDT_ARG_CONST:
  /* Arg is just a constant ("-4@$-9" in USDT arg spec).
   * value is
 recorded in arg_spec->val_off directly.
   */
  val = arg_spec->val_off;
  break;
 case BPF_USDT_ARG_REG:
  /* Arg is in a register (e.g, "8@%rax" in USDT arg spec),
   * so we read the contents of that register directly from
   * struct pt_regs. To keep things simple user-space parts
   * record offsetof(struct pt_regs, <regname>) in arg_spec->reg_off.
   */
  err = bpf_probe_read_kernel(&val, sizeof(val), (void *)ctx + arg_spec->reg_off);
  if (err)
```

```
  return err;
 break;
 case BPF_USDT_ARG_REG_DEREF:
  /* Arg is in memory addressed by register, plus some offset
   * (e.g., "-4@-1204(%rbp)" in USDT arg spec). Register is
   * identified like with BPF_USDT_ARG_REG case, and the offset
   * is in arg_spec->val_off. We first fetch register contents
   * from pt_regs, then do another user-space probe read to
   * fetch argument value itself.
   */
  err = bpf_probe_read_kernel(&val, sizeof(val), (void *)ctx + arg_spec->reg_off);
  if (err)
   return err;
  err = bpf_probe_read_user(&val,
 sizeof(val), (void *)val + arg_spec->val_off);
  if (err)
   return err;
#if __BYTE_ORDER__ == __ORDER_BIG_ENDIAN__
  val >>= arg_spec->arg_bitshift;
#endif
  break;
 default:
  return -EINVAL;
 }

 /* cast arg from 1, 2, or 4 bytes to final 8 byte size clearing
  * necessary upper arg_bitshift bits, with sign extension if argument
  * is signed
  */
 val <<= arg_spec->arg_bitshift;
 if (arg_spec->arg_signed)
  val = ((long)val) >> arg_spec->arg_bitshift;
 else
  val = val >> arg_spec->arg_bitshift;
 *res = val;
 return 0;
}

/* Retrieve user-specified cookie value provided during attach as
* bpf_usdt_opts.usdt_cookie. This serves the same purpose as BPF cookie
* returned by bpf_get_attach_cookie(). Libbpf's support for USDT is itself
* utilizing BPF cookies internally, so user can't use BPF cookie directly
* for USDT programs and has to use bpf_usdt_cookie() API instead.
*/
__weak __hidden
long bpf_usdt_cookie(struct pt_regs *ctx)
{
 struct __bpf_usdt_spec *spec;
```

```
 int spec_id;

 spec_id
 = __bpf_usdt_spec_id(ctx);
 if (spec_id < 0)
  return 0;

 spec = bpf_map_lookup_elem(&__bpf_usdt_specs, &spec_id);
 if (!spec)
  return 0;

 return spec->usdt_cookie;
}

/* we rely on ___bpf_apply() and ___bpf_narg() macros already defined in bpf_tracing.h */
#define ___bpf_usdt_args0() ctx
#define ___bpf_usdt_args1(x) ___bpf_usdt_args0(), ({ long _x; bpf_usdt_arg(ctx, 0, &_x); _x; })
#define ___bpf_usdt_args2(x, args...) ___bpf_usdt_args1(args), ({ long _x; bpf_usdt_arg(ctx, 1, &_x); _x; })
#define ___bpf_usdt_args3(x, args...) ___bpf_usdt_args2(args), ({ long _x; bpf_usdt_arg(ctx, 2, &_x); _x; })
#define ___bpf_usdt_args4(x, args...) ___bpf_usdt_args3(args), ({ long _x; bpf_usdt_arg(ctx, 3, &_x); _x; })
#define ___bpf_usdt_args5(x, args...) ___bpf_usdt_args4(args), ({ long _x; bpf_usdt_arg(ctx, 4, &_x); _x; })
#define ___bpf_usdt_args6(x, args...) ___bpf_usdt_args5(args), ({ long _x; bpf_usdt_arg(ctx, 5, &_x); _x; })
#define ___bpf_usdt_args7(x, args...) ___bpf_usdt_args6(args),
 ({ long _x; bpf_usdt_arg(ctx, 6, &_x); _x; })
#define ___bpf_usdt_args8(x, args...) ___bpf_usdt_args7(args), ({ long _x; bpf_usdt_arg(ctx, 7, &_x); _x; })
#define ___bpf_usdt_args9(x, args...) ___bpf_usdt_args8(args), ({ long _x; bpf_usdt_arg(ctx, 8, &_x); _x; })
#define ___bpf_usdt_args10(x, args...) ___bpf_usdt_args9(args), ({ long _x; bpf_usdt_arg(ctx, 9, &_x); _x; })
#define ___bpf_usdt_args11(x, args...) ___bpf_usdt_args10(args), ({ long _x; bpf_usdt_arg(ctx, 10, &_x); _x; })
#define ___bpf_usdt_args12(x, args...) ___bpf_usdt_args11(args), ({ long _x; bpf_usdt_arg(ctx, 11, &_x); _x; })
#define ___bpf_usdt_args(args...) ___bpf_apply(___bpf_usdt_args, ___bpf_narg(args))(args)

/*
* BPF_USDT serves the same purpose for USDT handlers as BPF_PROG for
* tp_btf/fentry/fexit BPF programs and BPF_KPROBE for kprobes.
* Original struct pt_regs * context is preserved as 'ctx' argument.
*/
#define BPF_USDT(name, args...)          \
name(struct pt_regs *ctx);          \
static __always_inline
 typeof(name(0))         \
____##name(struct pt_regs *ctx, ##args);        \
typeof(name(0)) name(struct pt_regs *ctx)        \
{            \
        _Pragma("GCC diagnostic push")         \
        _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
        return ____##name(___bpf_usdt_args(args));       \
        _Pragma("GCC diagnostic pop")         \
}            \
```

```
static __always_inline typeof(name(0))		\
____##name(struct pt_regs *ctx, ##args)

#endif /* __USDT_BPF_H__ */
```

Format: http://dep.debian.net/deps/dep5
Upstream-Name: networking-calico
Source: https://github.com/projectcalico/networking-calico/

Files: *
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```
// Project Calico BPF dataplane programs.
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// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_RPF_H__
#define __CALI_RPF_H__

#include "types.h"
#include "skb.h"
#include "routes.h"

static CALI_BPF_INLINE bool wep_rpf_check(struct cali_tc_ctx *ctx, struct cali_rt *r)
{
	CALI_DEBUG("Workload RPF check src=" IP_FMT " skb iface=%d.\n",
		   debug_ip(ctx->state->ip_src), ctx->skb->ifindex);
	if (!r) {
		CALI_INFO("Workload RPF fail: missing route.\n");
		return false;
	}
#ifdef IPVER6
 if (ctx->state->ip_proto == IPPROTO_ICMPV6) {
  return true;
 }
#endif
	if (!cali_rt_flags_local_workload(r->flags)) {
		CALI_INFO("Workload RPF fail: not a local workload.\n");
		return false;
	}
	if (r->if_index != ctx->skb->ifindex) {
		CALI_INFO("Workload RPF fail skb iface (%d) != route iface (%d)\n",
			  ctx->skb->ifindex, r->if_index);
		return false;
	}

	return true;
}

static CALI_BPF_INLINE bool hep_rpf_check(struct cali_tc_ctx *ctx)
```

```
{
 bool ret = false;
 bool strict;
#ifdef IPVER6
 bool linkLocal = false;
#endif
 if (!(GLOBAL_FLAGS & CALI_GLOBALS_RPF_OPTION_ENABLED)) {
  CALI_DEBUG("Host RPF check disabled\n");
  return true;
 }

#ifdef IPVER6
 if (ctx->state->ip_proto == IPPROTO_ICMPV6) {
  return true;
 }
 if (ip_link_local(ctx->state->ip_dst) && ip_link_local(ctx->state->ip_src)) {
  linkLocal = true;
 }
#endif

 strict = GLOBAL_FLAGS & CALI_GLOBALS_RPF_OPTION_STRICT;
 struct bpf_fib_lookup fib_params = {
#ifdef IPVER6
  .family = 10, /* AF_INET6 */
#else
  .family = 2, /* AF_INET */
#endif
  .tot_len = 0,
  .ifindex = ctx->skb->ingress_ifindex,
  .l4_protocol = ctx->state->ip_proto,
  .sport = bpf_htons(ctx->state->dport),
  .dport = bpf_htons(ctx->state->sport),
 };

 /* set the ipv4 here, otherwise the ipv4/6
 unions do not get
  * zeroed properly
  */
#ifdef IPVER6
 ipv6_addr_t_to_be32_4_ip(fib_params.ipv6_src, &ctx->state->ip_dst);
 ipv6_addr_t_to_be32_4_ip(fib_params.ipv6_dst, &ctx->state->ip_src);
#else
 fib_params.ipv4_src = ctx->state->ip_dst;
 fib_params.ipv4_dst = ctx->state->ip_src;
#endif

 int rc = bpf_fib_lookup(ctx->skb, &fib_params, sizeof(fib_params), 0);
 switch(rc) {
```

```
  case BPF_FIB_LKUP_RET_SUCCESS:
  case BPF_FIB_LKUP_RET_NO_NEIGH:
   if (strict) {
    ret = ctx->skb->ingress_ifindex == fib_params.ifindex;
#ifdef IPVER6
#ifdef VERIFIER_IS_COOL
    CALI_DEBUG("Host RPF check skb strict if %d\n", fib_params.ifindex);
#endif
#else
    CALI_DEBUG("Host RPF check src=" IP_FMT " skb strict if %d\n",
      debug_ip(ctx->state->ip_src), fib_params.ifindex);
#endif
   } else {
    ret = fib_params.ifindex != CT_INVALID_IFINDEX;
#ifdef IPVER6
#ifdef VERIFIER_IS_COOL
    CALI_DEBUG("Host RPF check skb loose if %d\n", fib_params.ifindex);
#endif
#else
    CALI_DEBUG("Host RPF check src="
 IP_FMT " skb loose if %d\n",
      debug_ip(ctx->state->ip_src), fib_params.ifindex);
#endif
   }
   break;
#ifdef IPVER6
  case BPF_FIB_LKUP_RET_NOT_FWDED:
   if (linkLocal) {
    ret = true;
   }
   break;
#endif

 }

#ifdef IPVER6
#ifdef VERIFIER_IS_COOL
 CALI_DEBUG("Host RPF check skb iface=%d\n", ctx->skb->ifindex);
#endif
#else
 CALI_DEBUG("Host RPF check src=" IP_FMT " skb iface=%d\n",
   debug_ip(ctx->state->ip_src), ctx->skb->ifindex);
#endif
 CALI_DEBUG("Host RPF check rc %d result %d\n", rc, ret);
 return ret;
}
#endif /* __CALI_FIB_H__ */
```

```
// Project Calico BPF dataplane programs.
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// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_LOG_H__
#define __CALI_LOG_H__

#define CALI_LOG_LEVEL_OFF 0
#define CALI_LOG_LEVEL_INFO 5
#define CALI_LOG_LEVEL_DEBUG 10
#define CALI_LOG_LEVEL_VERB 20

#ifndef CALI_LOG_LEVEL
#define CALI_LOG_LEVEL CALI_LOG_LEVEL_OFF
#endif

#define CALI_USE_LINUX_FIB true

#ifdef IPVER6
#define IPVER_PFX "IPv6 "
#else
#define IPVER_PFX ""
#endif

#define CALI_LOG(__fmt, ...) do { \
  char fmt[] = IPVER_PFX __fmt; \
  bpf_trace_printk(fmt, sizeof(fmt), ## __VA_ARGS__); \
} while (0)

#if !(CALI_F_XDP) && !(CALI_F_CGROUP)
#define CALI_IFACE_LOG(fmt, ...) CALI_LOG("%s" fmt, ctx->globals->data.iface_name, ## __VA_ARGS__)
#elif CALI_F_XDP
#define CALI_IFACE_LOG(fmt, ...) CALI_LOG("%s" fmt, ctx->xdp_globals->iface_name, ## __VA_ARGS__)
#else
#define CALI_IFACE_LOG(fmt, ...) /* just for cases like ctlb whenit is not used */
#endif

#define
 CALI_INFO_NO_FLAG(fmt, ...)  CALI_LOG_IF(CALI_LOG_LEVEL_INFO, fmt, ## __VA_ARGS__)
#define CALI_DEBUG_NO_FLAG(fmt, ...) CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, fmt, ##
__VA_ARGS__)

#define CALI_INFO(fmt, ...) \
 CALI_LOG_IF_FLAG(CALI_LOG_LEVEL_INFO, CALI_COMPILE_FLAGS, fmt, ## __VA_ARGS__)
#define CALI_DEBUG(fmt, ...) \
 CALI_LOG_IF_FLAG(CALI_LOG_LEVEL_DEBUG, CALI_COMPILE_FLAGS, fmt, ## __VA_ARGS__)
#define CALI_VERB(fmt, ...) \
 CALI_LOG_IF_FLAG(CALI_LOG_LEVEL_VERB, CALI_COMPILE_FLAGS, fmt, ## __VA_ARGS__)
```

```
#define CALI_LOG_IF(level, fmt, ...) do { \
 if (CALI_LOG_LEVEL >= (level))    \
  CALI_LOG(fmt, ## __VA_ARGS__);          \
} while (0)

#define CALI_LOG_IF_FLAG(level, flags, fmt, ...) do { \
 if (CALI_LOG_LEVEL >= (level))    \
  CALI_LOG_FLAG(flags, fmt, ## __VA_ARGS__);          \
} while (0)

#define CALI_LOG_FLAG(flags, fmt, ...) do { \
 if ((flags) & CALI_CGROUP) { \
  CALI_LOG("CTLB------------: " fmt, ## __VA_ARGS__); \
 } else if ((flags) & CALI_XDP_PROG) { \
  CALI_IFACE_LOG("-X:
 " fmt, ## __VA_ARGS__); \
 } else if (((flags) & CALI_TC_HOST_EP) && ((flags) & CALI_TC_INGRESS)) { \
  CALI_IFACE_LOG("-I: " fmt, ## __VA_ARGS__); \
 } else if ((flags) & CALI_TC_HOST_EP) { \
  CALI_IFACE_LOG("-E: " fmt, ## __VA_ARGS__); \
 } else if ((flags) & CALI_TC_INGRESS) { \
  CALI_IFACE_LOG("-I: " fmt, ## __VA_ARGS__); \
 } else { \
  CALI_IFACE_LOG("-E: " fmt, ## __VA_ARGS__); \
 } \
} while (0)

#define XSTR(S) STR(S)
#define STR(S) #S

#endif /* __CALI_LOG_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
/* Copyright (c) 2019 Facebook */

#ifndef __RELO_CORE_H
#define __RELO_CORE_H

#include <linux/bpf.h>

struct bpf_core_cand {
 const struct btf *btf;
 __u32 id;
};

/* dynamically sized list of type IDs and its associated struct btf */
struct bpf_core_cand_list {
 struct bpf_core_cand *cands;
```

```
 int len;
};

#define BPF_CORE_SPEC_MAX_LEN 64

/* represents BPF CO-RE field or array element accessor */
struct bpf_core_accessor {
 __u32 type_id;  /* struct/union type or array element type */
 __u32 idx;  /* field index or array index */
 const char *name; /* field name or NULL for array accessor */
};

struct bpf_core_spec {
 const struct btf *btf;
 /* high-level spec: named fields and array indices only */
 struct bpf_core_accessor spec[BPF_CORE_SPEC_MAX_LEN];
 /* original unresolved (no skip_mods_or_typedefs) root type ID */
 __u32 root_type_id;
 /* CO-RE relocation kind */
 enum bpf_core_relo_kind relo_kind;
 /* high-level spec length
 */
 int len;
 /* raw, low-level spec: 1-to-1 with accessor spec string */
 int raw_spec[BPF_CORE_SPEC_MAX_LEN];
 /* raw spec length */
 int raw_len;
 /* field bit offset represented by spec */
 __u32 bit_offset;
};

struct bpf_core_relo_res {
 /* expected value in the instruction, unless validate == false */
 __u64 orig_val;
 /* new value that needs to be patched up to */
 __u64 new_val;
 /* relocation unsuccessful, poison instruction, but don't fail load */
 bool poison;
 /* some relocations can't be validated against orig_val */
 bool validate;
 /* for field byte offset relocations or the forms:
  *     *(T *)(rX + <off>) = rY
  *     rX = *(T *)(rY + <off>),
  * we remember original and resolved field size to adjust direct
  * memory loads of pointers and integers; this is necessary for 32-bit
  * host kernel architectures, but also allows to automatically
  * relocate fields that were resized from, e.g., u32 to u64, etc.
  */
```

```
 bool fail_memsz_adjust;
 __u32 orig_sz;
 __u32 orig_type_id;
 __u32
 new_sz;
 __u32 new_type_id;
};

int __bpf_core_types_are_compat(const struct btf *local_btf, __u32 local_id,
    const struct btf *targ_btf, __u32 targ_id, int level);
int bpf_core_types_are_compat(const struct btf *local_btf, __u32 local_id,
         const struct btf *targ_btf, __u32 targ_id);
int __bpf_core_types_match(const struct btf *local_btf, __u32 local_id, const struct btf *targ_btf,
      __u32 targ_id, bool behind_ptr, int level);
int bpf_core_types_match(const struct btf *local_btf, __u32 local_id, const struct btf *targ_btf,
    __u32 targ_id);

size_t bpf_core_essential_name_len(const char *name);

int bpf_core_calc_relo_insn(const char *prog_name,
       const struct bpf_core_relo *relo, int relo_idx,
       const struct btf *local_btf,
       struct bpf_core_cand_list *cands,
       struct bpf_core_spec *specs_scratch,
       struct bpf_core_relo_res *targ_res);

int bpf_core_patch_insn(const char *prog_name, struct bpf_insn *insn,
   int insn_idx, const
 struct bpf_core_relo *relo,
   int relo_idx, const struct bpf_core_relo_res *res);

int bpf_core_parse_spec(const char *prog_name, const struct btf *btf,
          const struct bpf_core_relo *relo,
          struct bpf_core_spec *spec);

int bpf_core_format_spec(char *buf, size_t buf_sz, const struct bpf_core_spec *spec);

#endif
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_PARSING_H__
#define __CALI_PARSING_H__

#include <linux/tcp.h>
#include <linux/udp.h>
#ifdef IPVER6
```

```
#include <linux/icmpv6.h>
#else
#include <linux/icmp.h>
#endif

#include "types.h"
#include "skb.h"
#include "routes.h"

#define PARSING_OK 0
#define PARSING_OK_V6 1
#define PARSING_ALLOW_WITHOUT_ENFORCING_POLICY 2
#define PARSING_ERROR -1

static CALI_BPF_INLINE int bpf_load_bytes(struct cali_tc_ctx *ctx, __u32 offset, void *buf, __u32 len);

#ifdef IPVER6
#include "parsing6.h"
#else
#include "parsing4.h"
#endif

#ifdef IPVER6
static CALI_BPF_INLINE int parse_packet_ip(struct cali_tc_ctx *ctx)
{
 return parse_packet_ip_v6(ctx);
}

static CALI_BPF_INLINE void tc_state_fill_from_iphdr(struct cali_tc_ctx *ctx)
{
 return tc_state_fill_from_iphdr_v6(ctx);
}
#else
static CALI_BPF_INLINE int parse_packet_ip(struct cali_tc_ctx
 *ctx)
{
 return parse_packet_ip_v4(ctx);
}

static CALI_BPF_INLINE void tc_state_fill_from_iphdr(struct cali_tc_ctx *ctx)
{
 return tc_state_fill_from_iphdr_v4(ctx);
}
#endif

static CALI_BPF_INLINE int bpf_load_bytes(struct cali_tc_ctx *ctx, __u32 offset, void *buf, __u32 len)
{
 int ret;
```

```
#if CALI_F_XDP
#ifdef BPF_CORE_SUPPORTED
 if (bpf_core_enum_value_exists(enum bpf_func_id, BPF_FUNC_xdp_load_bytes)) {
  ret = bpf_xdp_load_bytes(ctx->xdp, offset, buf, len);
 } else
#endif
 {
  return -22 /* EINVAL */;
 }
#else /* CALI_F_XDP */
 ret = bpf_skb_load_bytes(ctx->skb, offset, buf, len);
#endif /* CALI_F_XDP */

 return ret;
}

/* Continue parsing packet based on the IP protocol and fill in relevant fields
* in the state (struct cali_tc_state). */
static CALI_BPF_INLINE int tc_state_fill_from_nexthdr(struct cali_tc_ctx *ctx, bool decap)
{
 if (ctx->ipheader_len == 20) {
  switch (ctx->state->ip_proto) {
  case IPPROTO_TCP:
   if (skb_refresh_validate_ptrs(ctx, TCP_SIZE)) {
    deny_reason(ctx,
 CALI_REASON_SHORT);
    CALI_DEBUG("Too short\n");
    goto deny;
   }
   __builtin_memcpy(ctx->scratch->l4, ((void*)ip_hdr(ctx))+IP_SIZE, TCP_SIZE);
   break;
  case IPPROTO_UDP:
   {
    int len = UDP_SIZE;
    if (decap) {
     /* We try to opportunistically load the vxlan
      * header as well, small cost and makes reading
      * vxlan cheap later.
      */
     len += sizeof(struct vxlanhdr);
     if (skb_refresh_validate_ptrs(ctx, len) == 0) {
      __builtin_memcpy(ctx->scratch->l4, ((void*)ip_hdr(ctx))+IP_SIZE, len);
      break;
     }
    }
    if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
     deny_reason(ctx, CALI_REASON_SHORT);
```

```
    CALI_DEBUG("Too short\n");
    goto deny;
   }
   __builtin_memcpy(ctx->scratch->l4, ((void*)ip_hdr(ctx))+IP_SIZE, UDP_SIZE);
  }
  break;
 default:
  __builtin_memcpy(ctx->scratch->l4, ((void*)ip_hdr(ctx))+IP_SIZE, UDP_SIZE);
  break;
 }
} else {
 switch (ctx->state->ip_proto) {
 case IPPROTO_TCP:
  /* Load the
L4 header in case there were ip options as we loaded the options instead. */
  if (bpf_load_bytes(ctx, skb_l4hdr_offset(ctx), ctx->scratch->l4, TCP_SIZE)) {
   CALI_DEBUG("Too short\n");
   goto deny;
  }
  break;
 case IPPROTO_UDP:
  {
   int len = UDP_SIZE;
   if (decap) {
    /* We try to opportunistically load the vxlan
     * header as well, small cost and makes reading
     * vxlan cheap later.
     */
    len += sizeof(struct vxlanhdr);
   }
   int offset =  skb_l4hdr_offset(ctx);
   if (bpf_load_bytes(ctx, offset, ctx->scratch->l4, len)) {
    if (bpf_load_bytes(ctx, offset, ctx->scratch->l4, UDP_SIZE)) {
     CALI_DEBUG("Too short\n");
     goto deny;
    }
   }
  }
  break;
 default:
  if (bpf_load_bytes(ctx, skb_l4hdr_offset(ctx), ctx->scratch->l4, UDP_SIZE)) {
   CALI_DEBUG("Too short\n");
   goto deny;
  }
  break;
 }
}
```

```
 switch (ctx->state->ip_proto) {
 case IPPROTO_TCP:
  ctx->state->sport = bpf_ntohs(tcp_hdr(ctx)->source);
  ctx->state->dport
 = bpf_ntohs(tcp_hdr(ctx)->dest);
  ctx->state->pre_nat_dport = ctx->state->dport;
  CALI_DEBUG("TCP; ports: s=%d d=%d\n", ctx->state->sport, ctx->state->dport);
  break;
 case IPPROTO_UDP:
  ctx->state->sport = bpf_ntohs(udp_hdr(ctx)->source);
  ctx->state->dport = bpf_ntohs(udp_hdr(ctx)->dest);
  ctx->state->pre_nat_dport = ctx->state->dport;
  CALI_DEBUG("UDP; ports: s=%d d=%d\n", ctx->state->sport, ctx->state->dport);
  if (ctx->state->dport == VXLAN_PORT) {
   /* CALI_F_FROM_HEP case is handled in vxlan_attempt_decap above since it already decoded
    * the header. */
   if (CALI_F_TO_HEP) {
    if (rt_addr_is_remote_host(&ctx->state->ip_dst) &&
      rt_addr_is_local_host(&ctx->state->ip_src)) {
     CALI_DEBUG("VXLAN packet to known Calico host, allow.\n");
     goto allow;
    } else {
     /* Unlike IPIP, the user can be using VXLAN on a different VNI
      * so we don't simply drop it. */
     CALI_DEBUG("VXLAN packet to unknown dest, fall through to policy.\n");
    }
   }
  }
  break;
#ifdef
 IPVER6
 case IPPROTO_ICMPV6:
  CALI_DEBUG("ICMPV6; type=%d code=%d\n",
    icmp_hdr(ctx)->icmp6_type, icmp_hdr(ctx)->icmp6_code);
  ctx->state->sport = 0;
  /* icmp_type/code are in dport */
  ctx->state->icmp_type = icmp_hdr(ctx)->icmp6_type;
  ctx->state->icmp_code = icmp_hdr(ctx)->icmp6_code;
  break;
#else
 case IPPROTO_ICMP:
  CALI_DEBUG("ICMP; type=%d code=%d\n",
    icmp_hdr(ctx)->type, icmp_hdr(ctx)->code);
  ctx->state->sport = 0;
  /* icmp_type/code are in dport */
  ctx->state->icmp_type = icmp_hdr(ctx)->type;
  ctx->state->icmp_code = icmp_hdr(ctx)->code;
  break;
```

```
#endif
 case IPPROTO_IPIP:
  if (CALI_F_TUNNEL | CALI_F_L3_DEV) {
   // IPIP should never be sent down the tunnel.
   CALI_DEBUG("IPIP traffic to/from tunnel: drop\n");
   deny_reason(ctx, CALI_REASON_UNAUTH_SOURCE);
   goto deny;
  }
  if (CALI_F_FROM_HEP) {
   if (rt_addr_is_remote_host(&ctx->state->ip_src)) {
    CALI_DEBUG("IPIP packet from known Calico host, allow.\n");
    goto allow;
   }
 else {
    CALI_DEBUG("IPIP packet from unknown source, drop.\n");
    deny_reason(ctx, CALI_REASON_UNAUTH_SOURCE);
    goto deny;
   }
  } else if (CALI_F_TO_HEP && !CALI_F_TUNNEL && !CALI_F_L3_DEV) {
   if (rt_addr_is_remote_host(&ctx->state->ip_dst)) {
    CALI_DEBUG("IPIP packet to known Calico host, allow.\n");
    goto allow;
   } else {
    CALI_DEBUG("IPIP packet to unknown dest, drop.\n");
    deny_reason(ctx, CALI_REASON_UNAUTH_SOURCE);
    goto deny;
   }
  }
  if (CALI_F_FROM_WEP) {
   CALI_DEBUG("IPIP traffic from workload: drop\n");
   deny_reason(ctx, CALI_REASON_UNAUTH_SOURCE);
   goto deny;
  }
 default:
  CALI_DEBUG("Unknown protocol (%d), unable to extract ports\n",
     (int)ctx->state->ip_proto);
 }

 return PARSING_OK;

allow:
 return PARSING_ALLOW_WITHOUT_ENFORCING_POLICY;

deny:
 return PARSING_ERROR;
}
```

```
#endif /* __CALI_PARSING_H__ */
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

/* Copyright (c) 2021 Facebook */
#ifndef __LIBBPF_STRSET_H
#define __LIBBPF_STRSET_H

#include <stdbool.h>
#include <stddef.h>

struct strset;

struct strset *strset__new(size_t max_data_sz, const char *init_data, size_t init_data_sz);
void strset__free(struct strset *set);

const char *strset__data(const struct strset *set);
size_t strset__data_size(const struct strset *set);

int strset__find_str(struct strset *set, const char *s);
int strset__add_str(struct strset *set, const char *s);

#endif /* __LIBBPF_STRSET_H */
# TEMPORARY
btf_dump/btf_dump: syntax
kprobe_multi_bench_attach
core_reloc/enum64val
core_reloc/size___diff_sz
core_reloc/type_based___diff_sz
test_ima # All of CI is broken on it following 6.3-rc1 merge

lwt_reroute      # crashes kernel after netnext merge from 2ab1efad60ad "net/sched: cls_api: complement
tcf_tfilter_dump_policy"
tc_links_ingress # started failing after net-next merge from 2ab1efad60ad "net/sched: cls_api: complement
tcf_tfilter_dump_policy"
xdp_bonding/xdp_bonding_features     # started failing after net merge from 359e54a93ab4 "l2tp: pass correct
message length to ip6_append_data"
tc_redirect/tc_redirect_dtime # uapi breakage after net-next commit 885c36e59f46 ("net: Re-use and set
mono_delivery_time bit for userspace tstamp packets")
migrate_reuseport/IPv4 TCP_NEW_SYN_RECV reqsk_timer_handler # flaky, under investigation
migrate_reuseport/IPv6 TCP_NEW_SYN_RECV reqsk_timer_handler # flaky, under investigation
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */
#ifndef __BPF_TRACING_H__
#define __BPF_TRACING_H__

#include "bpf_helpers.h"

/* Scan the ARCH passed in from ARCH env variable (see Makefile) */
#if defined(__TARGET_ARCH_x86)
```

```
 #define bpf_target_x86
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_s390)
 #define bpf_target_s390
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arm)
 #define bpf_target_arm
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arm64)
 #define bpf_target_arm64
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_mips)
 #define bpf_target_mips
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_powerpc)
 #define bpf_target_powerpc
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_sparc)
 #define bpf_target_sparc
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_riscv)
 #define bpf_target_riscv
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_arc)
 #define bpf_target_arc
 #define bpf_target_defined
#elif defined(__TARGET_ARCH_loongarch)
 #define
 bpf_target_loongarch
 #define bpf_target_defined
#else

/* Fall back to what the compiler says */
#if defined(__x86_64__)
 #define bpf_target_x86
 #define bpf_target_defined
#elif defined(__s390__)
 #define bpf_target_s390
 #define bpf_target_defined
#elif defined(__arm__)
 #define bpf_target_arm
 #define bpf_target_defined
#elif defined(__aarch64__)
 #define bpf_target_arm64
 #define bpf_target_defined
#elif defined(__mips__)
 #define bpf_target_mips
 #define bpf_target_defined
```

```
#elif defined(__powerpc__)
 #define bpf_target_powerpc
 #define bpf_target_defined
#elif defined(__sparc__)
 #define bpf_target_sparc
 #define bpf_target_defined
#elif defined(__riscv) && __riscv_xlen == 64
 #define bpf_target_riscv
 #define bpf_target_defined
#elif defined(__arc__)
 #define bpf_target_arc
 #define bpf_target_defined
#elif defined(__loongarch__)
 #define bpf_target_loongarch
 #define bpf_target_defined
#endif /* no compiler target */

#endif

#ifndef __BPF_TARGET_MISSING
#define
 __BPF_TARGET_MISSING "GCC error \"Must specify a BPF target arch via __TARGET_ARCH_xxx\""
#endif

#if defined(bpf_target_x86)

/*
* https://en.wikipedia.org/wiki/X86_calling_conventions#System_V_AMD64_ABI
*/

#if defined(__KERNEL__) || defined(__VMLINUX_H__)

#define __PT_PARM1_REG di
#define __PT_PARM2_REG si
#define __PT_PARM3_REG dx
#define __PT_PARM4_REG cx
#define __PT_PARM5_REG r8
#define __PT_PARM6_REG r9
/*
* Syscall uses r10 for PARM4. See arch/x86/entry/entry_64.S:entry_SYSCALL_64
* comments in Linux sources. And refer to syscall(2) manpage.
*/
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG r10
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG
```

```
#define __PT_RET_REG sp
#define __PT_FP_REG bp
#define __PT_RC_REG ax
#define __PT_SP_REG sp
#define __PT_IP_REG ip

#else

#ifdef __i386__

/*
 i386 kernel is built with -mregparm=3 */
#define __PT_PARM1_REG eax
#define __PT_PARM2_REG edx
#define __PT_PARM3_REG ecx
/* i386 syscall ABI is very different, refer to syscall(2) manpage */
#define __PT_PARM1_SYSCALL_REG ebx
#define __PT_PARM2_SYSCALL_REG ecx
#define __PT_PARM3_SYSCALL_REG edx
#define __PT_PARM4_SYSCALL_REG esi
#define __PT_PARM5_SYSCALL_REG edi
#define __PT_PARM6_SYSCALL_REG ebp

#define __PT_RET_REG esp
#define __PT_FP_REG ebp
#define __PT_RC_REG eax
#define __PT_SP_REG esp
#define __PT_IP_REG eip

#else /* __i386__ */

#define __PT_PARM1_REG rdi
#define __PT_PARM2_REG rsi
#define __PT_PARM3_REG rdx
#define __PT_PARM4_REG rcx
#define __PT_PARM5_REG r8
#define __PT_PARM6_REG r9

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG r10
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG rsp
#define
```

```
 __PT_FP_REG rbp
#define __PT_RC_REG rax
#define __PT_SP_REG rsp
#define __PT_IP_REG rip

#endif /* __i386__ */

#endif /* __KERNEL__ || __VMLINUX_H__ */

#elif defined(bpf_target_s390)

/*
* https://github.com/IBM/s390x-abi/releases/download/v1.6/lzsabi_s390x.pdf
*/

struct pt_regs___s390 {
 unsigned long orig_gpr2;
};

/* s390 provides user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const user_pt_regs *)(x))
#define __PT_PARM1_REG gprs[2]
#define __PT_PARM2_REG gprs[3]
#define __PT_PARM3_REG gprs[4]
#define __PT_PARM4_REG gprs[5]
#define __PT_PARM5_REG gprs[6]

#define __PT_PARM1_SYSCALL_REG orig_gpr2
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG gprs[7]
#define PT_REGS_PARM1_SYSCALL(x) PT_REGS_PARM1_CORE_SYSCALL(x)
#define PT_REGS_PARM1_CORE_SYSCALL(x) \
 BPF_CORE_READ((const
 struct pt_regs___s390 *)(x), __PT_PARM1_SYSCALL_REG)

#define __PT_RET_REG gprs[14]
#define __PT_FP_REG gprs[11] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG gprs[2]
#define __PT_SP_REG gprs[15]
#define __PT_IP_REG psw.addr

#elif defined(bpf_target_arm)

/*
* https://github.com/ARM-software/abi-aa/blob/main/aapcs32/aapcs32.rst#machine-registers
```

```
*/

#define __PT_PARM1_REG uregs[0]
#define __PT_PARM2_REG uregs[1]
#define __PT_PARM3_REG uregs[2]
#define __PT_PARM4_REG uregs[3]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG uregs[4]
#define __PT_PARM6_SYSCALL_REG uregs[5]
#define __PT_PARM7_SYSCALL_REG uregs[6]

#define __PT_RET_REG uregs[14]
#define __PT_FP_REG uregs[11] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG uregs[0]
#define __PT_SP_REG uregs[13]
#define __PT_IP_REG uregs[12]

#elif
 defined(bpf_target_arm64)

/*
* https://github.com/ARM-software/abi-aa/blob/main/aapcs64/aapcs64.rst#machine-registers
*/

struct pt_regs___arm64 {
 unsigned long orig_x0;
};

/* arm64 provides struct user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_pt_regs *)(x))
#define __PT_PARM1_REG regs[0]
#define __PT_PARM2_REG regs[1]
#define __PT_PARM3_REG regs[2]
#define __PT_PARM4_REG regs[3]
#define __PT_PARM5_REG regs[4]
#define __PT_PARM6_REG regs[5]
#define __PT_PARM7_REG regs[6]
#define __PT_PARM8_REG regs[7]

#define __PT_PARM1_SYSCALL_REG orig_x0
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
```

```
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG
#define PT_REGS_PARM1_SYSCALL(x) PT_REGS_PARM1_CORE_SYSCALL(x)
#define PT_REGS_PARM1_CORE_SYSCALL(x) \
 BPF_CORE_READ((const struct pt_regs___arm64 *)(x),
 __PT_PARM1_SYSCALL_REG)

#define __PT_RET_REG regs[30]
#define __PT_FP_REG regs[29] /* Works only with CONFIG_FRAME_POINTER */
#define __PT_RC_REG regs[0]
#define __PT_SP_REG sp
#define __PT_IP_REG pc

#elif defined(bpf_target_mips)

/*
* N64 ABI is assumed right now.
* https://en.wikipedia.org/wiki/MIPS_architecture#Calling_conventions
*/

#define __PT_PARM1_REG regs[4]
#define __PT_PARM2_REG regs[5]
#define __PT_PARM3_REG regs[6]
#define __PT_PARM4_REG regs[7]
#define __PT_PARM5_REG regs[8]
#define __PT_PARM6_REG regs[9]
#define __PT_PARM7_REG regs[10]
#define __PT_PARM8_REG regs[11]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG /* only N32/N64 */
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG /* only N32/N64 */

#define __PT_RET_REG regs[31]
#define __PT_FP_REG regs[30] /* Works only with CONFIG_FRAME_POINTER
 */
#define __PT_RC_REG regs[2]
#define __PT_SP_REG regs[29]
#define __PT_IP_REG cp0_epc

#elif defined(bpf_target_powerpc)

/*
* http://refspecs.linux-foundation.org/elf/elfspec_ppc.pdf (page 3-14,
* section "Function Calling Sequence")
*/
```

```
#define __PT_PARM1_REG gpr[3]
#define __PT_PARM2_REG gpr[4]
#define __PT_PARM3_REG gpr[5]
#define __PT_PARM4_REG gpr[6]
#define __PT_PARM5_REG gpr[7]
#define __PT_PARM6_REG gpr[8]
#define __PT_PARM7_REG gpr[9]
#define __PT_PARM8_REG gpr[10]

/* powerpc does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG orig_gpr3
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG
#if !defined(__arch64__)
#define __PT_PARM7_SYSCALL_REG __PT_PARM7_REG /* only powerpc (not powerpc64) */
#endif

#define __PT_RET_REG regs[31]
#define
 __PT_FP_REG __unsupported__
#define __PT_RC_REG gpr[3]
#define __PT_SP_REG sp
#define __PT_IP_REG nip

#elif defined(bpf_target_sparc)

/*
* https://en.wikipedia.org/wiki/Calling_convention#SPARC
*/

#define __PT_PARM1_REG u_regs[UREG_I0]
#define __PT_PARM2_REG u_regs[UREG_I1]
#define __PT_PARM3_REG u_regs[UREG_I2]
#define __PT_PARM4_REG u_regs[UREG_I3]
#define __PT_PARM5_REG u_regs[UREG_I4]
#define __PT_PARM6_REG u_regs[UREG_I5]

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG
```

```
#define __PT_RET_REG u_regs[UREG_I7]
#define __PT_FP_REG __unsupported__
#define __PT_RC_REG u_regs[UREG_I0]
#define __PT_SP_REG u_regs[UREG_FP]
/* Should this also be a bpf_target check for the sparc case? */
#if defined(__arch64__)
#define __PT_IP_REG tpc
#else
#define
 __PT_IP_REG pc
#endif

#elif defined(bpf_target_riscv)

/*
* https://github.com/riscv-non-isa/riscv-elf-psabi-doc/blob/master/riscv-cc.adoc#risc-v-calling-conventions
*/

/* riscv provides struct user_regs_struct instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_regs_struct *)(x))
#define __PT_PARM1_REG a0
#define __PT_PARM2_REG a1
#define __PT_PARM3_REG a2
#define __PT_PARM4_REG a3
#define __PT_PARM5_REG a4
#define __PT_PARM6_REG a5
#define __PT_PARM7_REG a6
#define __PT_PARM8_REG a7

#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG ra
#define __PT_FP_REG s0
#define __PT_RC_REG a0
#define __PT_SP_REG sp
#define __PT_IP_REG pc

#elif defined(bpf_target_arc)

/*
* Section "Function Calling Sequence" (page
```

```
 24):
* https://raw.githubusercontent.com/wiki/foss-for-synopsys-dwc-arc-processors/toolchain/files/ARCv2_ABI.pdf
*/

/* arc provides struct user_regs_struct instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_regs_struct *)(x))
#define __PT_PARM1_REG scratch.r0
#define __PT_PARM2_REG scratch.r1
#define __PT_PARM3_REG scratch.r2
#define __PT_PARM4_REG scratch.r3
#define __PT_PARM5_REG scratch.r4
#define __PT_PARM6_REG scratch.r5
#define __PT_PARM7_REG scratch.r6
#define __PT_PARM8_REG scratch.r7

/* arc does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG __PT_PARM6_REG

#define __PT_RET_REG scratch.blink
#define __PT_FP_REG scratch.fp
#define __PT_RC_REG scratch.r0
#define
 __PT_SP_REG scratch.sp
#define __PT_IP_REG scratch.ret

#elif defined(bpf_target_loongarch)

/*
* https://docs.kernel.org/loongarch/introduction.html
* https://loongson.github.io/LoongArch-Documentation/LoongArch-ELF-ABI-EN.html
*/

/* loongarch provides struct user_pt_regs instead of struct pt_regs to userspace */
#define __PT_REGS_CAST(x) ((const struct user_pt_regs *)(x))
#define __PT_PARM1_REG regs[4]
#define __PT_PARM2_REG regs[5]
#define __PT_PARM3_REG regs[6]
#define __PT_PARM4_REG regs[7]
#define __PT_PARM5_REG regs[8]
#define __PT_PARM6_REG regs[9]
#define __PT_PARM7_REG regs[10]
#define __PT_PARM8_REG regs[11]
```

```
/* loongarch does not select ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ctx
#define __PT_PARM1_SYSCALL_REG __PT_PARM1_REG
#define __PT_PARM2_SYSCALL_REG __PT_PARM2_REG
#define __PT_PARM3_SYSCALL_REG __PT_PARM3_REG
#define __PT_PARM4_SYSCALL_REG __PT_PARM4_REG
#define __PT_PARM5_SYSCALL_REG __PT_PARM5_REG
#define __PT_PARM6_SYSCALL_REG
 __PT_PARM6_REG

#define __PT_RET_REG regs[1]
#define __PT_FP_REG regs[22]
#define __PT_RC_REG regs[4]
#define __PT_SP_REG regs[3]
#define __PT_IP_REG csr_era

#endif

#if defined(bpf_target_defined)

struct pt_regs;

/* allow some architectures to override `struct pt_regs` */
#ifndef __PT_REGS_CAST
#define __PT_REGS_CAST(x) (x)
#endif

/*
* Different architectures support different number of arguments passed
* through registers. i386 supports just 3, some arches support up to 8.
*/
#ifndef __PT_PARM4_REG
#define __PT_PARM4_REG __unsupported__
#endif
#ifndef __PT_PARM5_REG
#define __PT_PARM5_REG __unsupported__
#endif
#ifndef __PT_PARM6_REG
#define __PT_PARM6_REG __unsupported__
#endif
#ifndef __PT_PARM7_REG
#define __PT_PARM7_REG __unsupported__
#endif
#ifndef __PT_PARM8_REG
#define __PT_PARM8_REG __unsupported__
#endif
/*
```

```
* Similarly, syscall-specific conventions might differ between function call
* conventions within each architecutre. All supported architectures pass
* either
 6 or 7 syscall arguments in registers.
*
* See syscall(2) manpage for succinct table with information on each arch.
*/
#ifndef __PT_PARM7_SYSCALL_REG
#define __PT_PARM7_SYSCALL_REG __unsupported__
#endif

#define PT_REGS_PARM1(x) (__PT_REGS_CAST(x)->__PT_PARM1_REG)
#define PT_REGS_PARM2(x) (__PT_REGS_CAST(x)->__PT_PARM2_REG)
#define PT_REGS_PARM3(x) (__PT_REGS_CAST(x)->__PT_PARM3_REG)
#define PT_REGS_PARM4(x) (__PT_REGS_CAST(x)->__PT_PARM4_REG)
#define PT_REGS_PARM5(x) (__PT_REGS_CAST(x)->__PT_PARM5_REG)
#define PT_REGS_PARM6(x) (__PT_REGS_CAST(x)->__PT_PARM6_REG)
#define PT_REGS_PARM7(x) (__PT_REGS_CAST(x)->__PT_PARM7_REG)
#define PT_REGS_PARM8(x) (__PT_REGS_CAST(x)->__PT_PARM8_REG)
#define PT_REGS_RET(x) (__PT_REGS_CAST(x)->__PT_RET_REG)
#define PT_REGS_FP(x) (__PT_REGS_CAST(x)->__PT_FP_REG)
#define PT_REGS_RC(x) (__PT_REGS_CAST(x)->__PT_RC_REG)
#define PT_REGS_SP(x) (__PT_REGS_CAST(x)->__PT_SP_REG)
#define PT_REGS_IP(x) (__PT_REGS_CAST(x)->__PT_IP_REG)

#define PT_REGS_PARM1_CORE(x)
 BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM1_REG)
#define PT_REGS_PARM2_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM2_REG)
#define PT_REGS_PARM3_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM3_REG)
#define PT_REGS_PARM4_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM4_REG)
#define PT_REGS_PARM5_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM5_REG)
#define PT_REGS_PARM6_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM6_REG)
#define PT_REGS_PARM7_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM7_REG)
#define PT_REGS_PARM8_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_PARM8_REG)
#define PT_REGS_RET_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_RET_REG)
#define PT_REGS_FP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_FP_REG)
#define PT_REGS_RC_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_RC_REG)
#define PT_REGS_SP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_SP_REG)
#define PT_REGS_IP_CORE(x) BPF_CORE_READ(__PT_REGS_CAST(x), __PT_IP_REG)

#if defined(bpf_target_powerpc)

#define
 BPF_KPROBE_READ_RET_IP(ip, ctx)  ({ (ip) = (ctx)->link; })
#define BPF_KRETPROBE_READ_RET_IP  BPF_KPROBE_READ_RET_IP

#elif defined(bpf_target_sparc)
```

```
#define BPF_KPROBE_READ_RET_IP(ip, ctx)  ({ (ip) = PT_REGS_RET(ctx); })
#define BPF_KRETPROBE_READ_RET_IP  BPF_KPROBE_READ_RET_IP

#else

#define BPF_KPROBE_READ_RET_IP(ip, ctx)        \
 ({ bpf_probe_read_kernel(&(ip), sizeof(ip), (void *)PT_REGS_RET(ctx)); })
#define BPF_KRETPROBE_READ_RET_IP(ip, ctx)       \
 ({ bpf_probe_read_kernel(&(ip), sizeof(ip), (void *)(PT_REGS_FP(ctx) + sizeof(ip))); })

#endif

#ifndef PT_REGS_PARM1_SYSCALL
#define PT_REGS_PARM1_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM1_SYSCALL_REG)
#define PT_REGS_PARM1_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM1_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM2_SYSCALL
#define PT_REGS_PARM2_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM2_SYSCALL_REG)
#define PT_REGS_PARM2_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM2_SYSCALL_REG)
#endif
#ifndef
 PT_REGS_PARM3_SYSCALL
#define PT_REGS_PARM3_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM3_SYSCALL_REG)
#define PT_REGS_PARM3_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM3_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM4_SYSCALL
#define PT_REGS_PARM4_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM4_SYSCALL_REG)
#define PT_REGS_PARM4_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM4_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM5_SYSCALL
#define PT_REGS_PARM5_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM5_SYSCALL_REG)
#define PT_REGS_PARM5_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM5_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM6_SYSCALL
#define PT_REGS_PARM6_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM6_SYSCALL_REG)
#define PT_REGS_PARM6_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
__PT_PARM6_SYSCALL_REG)
#endif
#ifndef PT_REGS_PARM7_SYSCALL
#define PT_REGS_PARM7_SYSCALL(x) (__PT_REGS_CAST(x)->__PT_PARM7_SYSCALL_REG)
#define PT_REGS_PARM7_CORE_SYSCALL(x) BPF_CORE_READ(__PT_REGS_CAST(x),
 __PT_PARM7_SYSCALL_REG)
#endif
```

```
#else /* defined(bpf_target_defined) */

#define PT_REGS_PARM1(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM8(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RET(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_FP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RC(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_SP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_IP(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define PT_REGS_PARM1_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l;
 })
#define PT_REGS_PARM2_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM8_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RET_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_FP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_RC_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_SP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_IP_CORE(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define BPF_KPROBE_READ_RET_IP(ip, ctx) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define BPF_KRETPROBE_READ_RET_IP(ip, ctx) ({ _Pragma(__BPF_TARGET_MISSING);
 0l; })

#define PT_REGS_PARM1_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM5_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM7_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#define PT_REGS_PARM1_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM2_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM3_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM4_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
```

```
#define PT_REGS_PARM5_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define PT_REGS_PARM6_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })
#define
 PT_REGS_PARM7_CORE_SYSCALL(x) ({ _Pragma(__BPF_TARGET_MISSING); 0l; })

#endif /* defined(bpf_target_defined) */

/*
* When invoked from a syscall handler kprobe, returns a pointer to a
* struct pt_regs containing syscall arguments and suitable for passing to
* PT_REGS_PARMn_SYSCALL() and PT_REGS_PARMn_CORE_SYSCALL().
*/
#ifndef PT_REGS_SYSCALL_REGS
/* By default, assume that the arch selects ARCH_HAS_SYSCALL_WRAPPER. */
#define PT_REGS_SYSCALL_REGS(ctx) ((struct pt_regs *)PT_REGS_PARM1(ctx))
#endif

#ifndef ___bpf_concat
#define ___bpf_concat(a, b) a ## b
#endif
#ifndef ___bpf_apply
#define ___bpf_apply(fn, n) ___bpf_concat(fn, n)
#endif
#ifndef ___bpf_nth
#define ___bpf_nth(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _a, _b, _c, N, ...) N
#endif
#ifndef ___bpf_narg
#define ___bpf_narg(...) ___bpf_nth(_, ##__VA_ARGS__, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0)
#endif

#define ___bpf_ctx_cast0()           ctx
#define ___bpf_ctx_cast1(x)          ___bpf_ctx_cast0(), ctx[0]
#define
 ___bpf_ctx_cast2(x, args...)  ___bpf_ctx_cast1(args), ctx[1]
#define ___bpf_ctx_cast3(x, args...)  ___bpf_ctx_cast2(args), ctx[2]
#define ___bpf_ctx_cast4(x, args...)  ___bpf_ctx_cast3(args), ctx[3]
#define ___bpf_ctx_cast5(x, args...)  ___bpf_ctx_cast4(args), ctx[4]
#define ___bpf_ctx_cast6(x, args...)  ___bpf_ctx_cast5(args), ctx[5]
#define ___bpf_ctx_cast7(x, args...)  ___bpf_ctx_cast6(args), ctx[6]
#define ___bpf_ctx_cast8(x, args...)  ___bpf_ctx_cast7(args), ctx[7]
#define ___bpf_ctx_cast9(x, args...)  ___bpf_ctx_cast8(args), ctx[8]
#define ___bpf_ctx_cast10(x, args...) ___bpf_ctx_cast9(args), ctx[9]
#define ___bpf_ctx_cast11(x, args...) ___bpf_ctx_cast10(args), ctx[10]
#define ___bpf_ctx_cast12(x, args...) ___bpf_ctx_cast11(args), ctx[11]
#define ___bpf_ctx_cast(args...)      ___bpf_apply(___bpf_ctx_cast, ___bpf_narg(args))(args)

/*
* BPF_PROG is a convenience wrapper for generic tp_btf/fentry/fexit and
```

```
* similar kinds of BPF programs, that accept input arguments as a single
 * pointer to untyped u64 array, where each u64 can actually be a typed
* pointer or integer of different size. Instead of requring user to write
* manual casts and work with array elements by index, BPF_PROG macro
* allows user to declare a list of named and typed input arguments in the
* same syntax as for normal C function. All the casting is hidden and
* performed transparently, while user code can just assume working with
* function arguments of specified type and name.
*
* Original raw context argument is preserved as well as 'ctx' argument.
* This is useful when using BPF helpers that expect original context
* as one of the parameters (e.g., for bpf_perf_event_output()).
*/
#define BPF_PROG(name, args...)          \
name(unsigned long long *ctx);          \
static __always_inline typeof(name(0))         \
____##name(unsigned long long *ctx, ##args);        \
typeof(name(0)) name(unsigned long long *ctx)        \
{             \
 _Pragma("GCC diagnostic push")
    \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 return ____##name(___bpf_ctx_cast(args));       \
 _Pragma("GCC diagnostic pop")         \
}             \
static __always_inline typeof(name(0))         \
____##name(unsigned long long *ctx, ##args)

#ifndef ___bpf_nth2
#define ___bpf_nth2(_, _1, _2, _3, _4, _5, _6, _7, _8, _9, _10, _11, _12, _13, \
      _14, _15, _16, _17, _18, _19, _20, _21, _22, _23, _24, N, ...) N
#endif
#ifndef ___bpf_narg2
#define ___bpf_narg2(...) \
 ___bpf_nth2(_, ##__VA_ARGS__, 12, 12, 11, 11, 10, 10, 9, 9, 8, 8, 7, 7, \
      6, 6, 5, 5, 4, 4, 3, 3, 2, 2, 1, 1, 0)
#endif

#define ___bpf_treg_cnt(t) \
 __builtin_choose_expr(sizeof(t) == 1, 1, \
 __builtin_choose_expr(sizeof(t) == 2, 1, \
 __builtin_choose_expr(sizeof(t) == 4, 1, \
 __builtin_choose_expr(sizeof(t) == 8, 1, \
 __builtin_choose_expr(sizeof(t) == 16, 2, \
        (void)0)))))

#define ___bpf_reg_cnt0()  (0)
#define ___bpf_reg_cnt1(t, x)  (___bpf_reg_cnt0() + ___bpf_treg_cnt(t))
```

```
#define
 ___bpf_reg_cnt2(t, x, args...) (___bpf_reg_cnt1(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt3(t, x, args...) (___bpf_reg_cnt2(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt4(t, x, args...) (___bpf_reg_cnt3(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt5(t, x, args...) (___bpf_reg_cnt4(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt6(t, x, args...) (___bpf_reg_cnt5(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt7(t, x, args...) (___bpf_reg_cnt6(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt8(t, x, args...) (___bpf_reg_cnt7(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt9(t, x, args...) (___bpf_reg_cnt8(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt10(t, x, args...) (___bpf_reg_cnt9(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt11(t, x, args...) (___bpf_reg_cnt10(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt12(t, x, args...) (___bpf_reg_cnt11(args) + ___bpf_treg_cnt(t))
#define ___bpf_reg_cnt(args...)  ___bpf_apply(___bpf_reg_cnt, ___bpf_narg2(args))(args)

#define
 ___bpf_union_arg(t, x, n) \
 __builtin_choose_expr(sizeof(t) == 1, ({ union { __u8 z[1]; t x; } ___t = { .z = {ctx[n]}}; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 2, ({ union { __u16 z[1]; t x; } ___t = { .z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 4, ({ union { __u32 z[1]; t x; } ___t = { .z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 8, ({ union { __u64 z[1]; t x; } ___t = {.z = {ctx[n]} }; ___t.x; }), \
 __builtin_choose_expr(sizeof(t) == 16, ({ union { __u64 z[2]; t x; } ___t = {.z = {ctx[n], ctx[n + 1]} }; ___t.x; }), \
        (void)0)))))

#define ___bpf_ctx_arg0(n, args...)
#define ___bpf_ctx_arg1(n, t, x)  , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt1(t, x))
#define ___bpf_ctx_arg2(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt2(t, x, args)) ___bpf_ctx_arg1(n,
args)
#define ___bpf_ctx_arg3(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt3(t, x, args)) ___bpf_ctx_arg2(n,
 args)
#define ___bpf_ctx_arg4(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt4(t, x, args)) ___bpf_ctx_arg3(n,
args)
#define ___bpf_ctx_arg5(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt5(t, x, args)) ___bpf_ctx_arg4(n,
args)
#define ___bpf_ctx_arg6(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt6(t, x, args)) ___bpf_ctx_arg5(n,
args)
#define ___bpf_ctx_arg7(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt7(t, x, args)) ___bpf_ctx_arg6(n,
args)
#define ___bpf_ctx_arg8(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt8(t, x, args)) ___bpf_ctx_arg7(n,
args)
#define ___bpf_ctx_arg9(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt9(t, x, args)) ___bpf_ctx_arg8(n,
args)
#define ___bpf_ctx_arg10(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt10(t, x, args))
___bpf_ctx_arg9(n, args)
#define ___bpf_ctx_arg11(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt11(t, x, args))
___bpf_ctx_arg10(n,
 args)
#define ___bpf_ctx_arg12(n, t, x, args...) , ___bpf_union_arg(t, x, n - ___bpf_reg_cnt12(t, x, args))
___bpf_ctx_arg11(n, args)
```

```
#define ___bpf_ctx_arg(args...) ___bpf_apply(___bpf_ctx_arg, ___bpf_narg2(args))(___bpf_reg_cnt(args), args)

#define ___bpf_ctx_decl0()
#define ___bpf_ctx_decl1(t, x)   , t x
#define ___bpf_ctx_decl2(t, x, args...)  , t x ___bpf_ctx_decl1(args)
#define ___bpf_ctx_decl3(t, x, args...)  , t x ___bpf_ctx_decl2(args)
#define ___bpf_ctx_decl4(t, x, args...)  , t x ___bpf_ctx_decl3(args)
#define ___bpf_ctx_decl5(t, x, args...)  , t x ___bpf_ctx_decl4(args)
#define ___bpf_ctx_decl6(t, x, args...)  , t x ___bpf_ctx_decl5(args)
#define ___bpf_ctx_decl7(t, x, args...)  , t x ___bpf_ctx_decl6(args)
#define ___bpf_ctx_decl8(t, x, args...)  , t x ___bpf_ctx_decl7(args)
#define ___bpf_ctx_decl9(t, x, args...)  , t x ___bpf_ctx_decl8(args)
#define ___bpf_ctx_decl10(t, x, args...) , t x ___bpf_ctx_decl9(args)
#define ___bpf_ctx_decl11(t, x, args...) , t x ___bpf_ctx_decl10(args)
#define
 ___bpf_ctx_decl12(t, x, args...) , t x ___bpf_ctx_decl11(args)
#define ___bpf_ctx_decl(args...) ___bpf_apply(___bpf_ctx_decl, ___bpf_narg2(args))(args)

/*
* BPF_PROG2 is an enhanced version of BPF_PROG in order to handle struct
* arguments. Since each struct argument might take one or two u64 values
* in the trampoline stack, argument type size is needed to place proper number
* of u64 values for each argument. Therefore, BPF_PROG2 has different
* syntax from BPF_PROG. For example, for the following BPF_PROG syntax:
*
*   int BPF_PROG(test2, int a, int b) { ... }
*
* the corresponding BPF_PROG2 syntax is:
*
*   int BPF_PROG2(test2, int, a, int, b) { ... }
*
* where type and the corresponding argument name are separated by comma.
*
* Use BPF_PROG2 macro if one of the arguments might be a struct/union larger
* than 8 bytes:
*
*   int BPF_PROG2(test_struct_arg, struct bpf_testmod_struct_arg_1, a, int, b,
*     int, c, int, d, struct bpf_testmod_struct_arg_2,
 e, int, ret)
*   {
*       // access a, b, c, d, e, and ret directly
*       ...
*   }
*/
#define BPF_PROG2(name, args...)      \
name(unsigned long long *ctx);       \
static __always_inline typeof(name(0))      \
____##name(unsigned long long *ctx ___bpf_ctx_decl(args));   \
```

```
typeof(name(0)) name(unsigned long long *ctx)     \
{          \
 return ____##name(ctx ___bpf_ctx_arg(args));    \
}          \
static __always_inline typeof(name(0))      \
____##name(unsigned long long *ctx ___bpf_ctx_decl(args))

struct pt_regs;

#define ___bpf_kprobe_args0()           ctx
#define ___bpf_kprobe_args1(x)          ___bpf_kprobe_args0(), (unsigned long long)PT_REGS_PARM1(ctx)
#define ___bpf_kprobe_args2(x, args...) ___bpf_kprobe_args1(args), (unsigned long long)PT_REGS_PARM2(ctx)
#define ___bpf_kprobe_args3(x, args...) ___bpf_kprobe_args2(args), (unsigned long long)PT_REGS_PARM3(ctx)
#define ___bpf_kprobe_args4(x, args...) ___bpf_kprobe_args3(args), (unsigned long long)PT_REGS_PARM4(ctx)
#define
 ___bpf_kprobe_args5(x, args...) ___bpf_kprobe_args4(args), (unsigned long long)PT_REGS_PARM5(ctx)
#define ___bpf_kprobe_args6(x, args...) ___bpf_kprobe_args5(args), (unsigned long long)PT_REGS_PARM6(ctx)
#define ___bpf_kprobe_args7(x, args...) ___bpf_kprobe_args6(args), (unsigned long long)PT_REGS_PARM7(ctx)
#define ___bpf_kprobe_args8(x, args...) ___bpf_kprobe_args7(args), (unsigned long long)PT_REGS_PARM8(ctx)
#define ___bpf_kprobe_args(args...)     ___bpf_apply(___bpf_kprobe_args, ___bpf_narg(args))(args)

/*
* BPF_KPROBE serves the same purpose for kprobes as BPF_PROG for
* tp_btf/fentry/fexit BPF programs. It hides the underlying platform-specific
* low-level way of getting kprobe input arguments from struct pt_regs, and
* provides a familiar typed and named function arguments syntax and
* semantics of accessing kprobe input paremeters.
*
* Original struct pt_regs* context is preserved as 'ctx' argument. This might
* be necessary when using BPF helpers
 like bpf_perf_event_output().
*/
#define BPF_KPROBE(name, args...)        \
name(struct pt_regs *ctx);          \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args);       \
typeof(name(0)) name(struct pt_regs *ctx)       \
{            \
 _Pragma("GCC diagnostic push")        \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 return ____##name(___bpf_kprobe_args(args));       \
 _Pragma("GCC diagnostic pop")        \
}            \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args)

#define ___bpf_kretprobe_args0()       ctx
#define ___bpf_kretprobe_args1(x)      ___bpf_kretprobe_args0(), (unsigned long long)PT_REGS_RC(ctx)
```

```
#define ___bpf_kretprobe_args(args...) ___bpf_apply(___bpf_kretprobe_args, ___bpf_narg(args))(args)

/*
* BPF_KRETPROBE is similar to BPF_KPROBE, except, it only provides optional
* return value (in addition to `struct pt_regs *ctx`), but no input
* arguments, because
 they will be clobbered by the time probed function
* returns.
*/
#define BPF_KRETPROBE(name, args...)        \
name(struct pt_regs *ctx);          \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args);        \
typeof(name(0)) name(struct pt_regs *ctx)        \
{            \
 _Pragma("GCC diagnostic push")        \
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 return ____##name(___bpf_kretprobe_args(args));       \
 _Pragma("GCC diagnostic pop")        \
}            \
static __always_inline typeof(name(0)) ____##name(struct pt_regs *ctx, ##args)

/* If kernel has CONFIG_ARCH_HAS_SYSCALL_WRAPPER, read pt_regs directly */
#define ___bpf_syscall_args0()          ctx
#define ___bpf_syscall_args1(x)          ___bpf_syscall_args0(), (unsigned long
long)PT_REGS_PARM1_SYSCALL(regs)
#define ___bpf_syscall_args2(x, args...) ___bpf_syscall_args1(args), (unsigned long
long)PT_REGS_PARM2_SYSCALL(regs)
#define ___bpf_syscall_args3(x,
 args...) ___bpf_syscall_args2(args), (unsigned long long)PT_REGS_PARM3_SYSCALL(regs)
#define ___bpf_syscall_args4(x, args...) ___bpf_syscall_args3(args), (unsigned long
long)PT_REGS_PARM4_SYSCALL(regs)
#define ___bpf_syscall_args5(x, args...) ___bpf_syscall_args4(args), (unsigned long
long)PT_REGS_PARM5_SYSCALL(regs)
#define ___bpf_syscall_args6(x, args...) ___bpf_syscall_args5(args), (unsigned long
long)PT_REGS_PARM6_SYSCALL(regs)
#define ___bpf_syscall_args7(x, args...) ___bpf_syscall_args6(args), (unsigned long
long)PT_REGS_PARM7_SYSCALL(regs)
#define ___bpf_syscall_args(args...)     ___bpf_apply(___bpf_syscall_args, ___bpf_narg(args))(args)

/* If kernel doesn't have CONFIG_ARCH_HAS_SYSCALL_WRAPPER, we have to BPF_CORE_READ from
pt_regs */
#define ___bpf_syswrap_args0()          ctx
#define ___bpf_syswrap_args1(x)          ___bpf_syswrap_args0(), (unsigned long
long)PT_REGS_PARM1_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args2(x, args...) ___bpf_syswrap_args1(args), (unsigned
 long long)PT_REGS_PARM2_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args3(x, args...) ___bpf_syswrap_args2(args), (unsigned long
```

```
long)PT_REGS_PARM3_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args4(x, args...) ___bpf_syswrap_args3(args), (unsigned long
long)PT_REGS_PARM4_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args5(x, args...) ___bpf_syswrap_args4(args), (unsigned long
long)PT_REGS_PARM5_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args6(x, args...) ___bpf_syswrap_args5(args), (unsigned long
long)PT_REGS_PARM6_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args7(x, args...) ___bpf_syswrap_args6(args), (unsigned long
long)PT_REGS_PARM7_CORE_SYSCALL(regs)
#define ___bpf_syswrap_args(args...)	___bpf_apply(___bpf_syswrap_args, ___bpf_narg(args))(args)

/*
* BPF_KSYSCALL is a variant of BPF_KPROBE, which is intended for
* tracing syscall functions, like __x64_sys_close. It hides the underlying
* platform-specific low-level way of getting syscall input arguments from
* struct pt_regs, and provides
 a familiar typed and named function arguments
* syntax and semantics of accessing syscall input parameters.
*
* Original struct pt_regs * context is preserved as 'ctx' argument. This might
* be necessary when using BPF helpers like bpf_perf_event_output().
*
* At the moment BPF_KSYSCALL does not transparently handle all the calling
* convention quirks for the following syscalls:
*
* - mmap(): __ARCH_WANT_SYS_OLD_MMAP.
* - clone(): CONFIG_CLONE_BACKWARDS, CONFIG_CLONE_BACKWARDS2 and
*	CONFIG_CLONE_BACKWARDS3.
* - socket-related syscalls: __ARCH_WANT_SYS_SOCKETCALL.
* - compat syscalls.
*
* This may or may not change in the future. User needs to take extra measures
* to handle such quirks explicitly, if necessary.
*
* This macro relies on BPF CO-RE support and virtual __kconfig externs.
*/
#define BPF_KSYSCALL(name, args...)	\
name(struct pt_regs *ctx);	\
extern _Bool LINUX_HAS_SYSCALL_WRAPPER __kconfig;	\
static __always_inline
 typeof(name(0))	\
____##name(struct pt_regs *ctx, ##args);	\
typeof(name(0)) name(struct pt_regs *ctx)	\
{	\
 struct pt_regs *regs = LINUX_HAS_SYSCALL_WRAPPER	\
	? (struct pt_regs *)PT_REGS_PARM1(ctx)	\
	: ctx;	\
 _Pragma("GCC diagnostic push")	\
```

```
 _Pragma("GCC diagnostic ignored \"-Wint-conversion\"")      \
 if (LINUX_HAS_SYSCALL_WRAPPER)        \
  return ____##name(___bpf_syswrap_args(args));      \
 else           \
  return ____##name(___bpf_syscall_args(args));      \
 _Pragma("GCC diagnostic pop")        \
}            \
static __always_inline typeof(name(0))        \
____##name(struct pt_regs *ctx, ##args)

#define BPF_KPROBE_SYSCALL BPF_KSYSCALL

/* BPF_UPROBE and BPF_URETPROBE are identical to BPF_KPROBE and BPF_KRETPROBE,
* but are named way less confusingly for SEC("uprobe") and SEC("uretprobe")
* use cases.
*/
#define BPF_UPROBE(name, args...)  BPF_KPROBE(name, ##args)
#define BPF_URETPROBE(name,
 args...)  BPF_KRETPROBE(name, ##args)

#endif
```

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```
// Project Calico BPF dataplane programs.
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#ifndef __CALI_METADATA_H__
#define __CALI_METADATA_H__

/* A struct to share information between TC and XDP programs.
* The struct must be 4 byte aligned, based on
* samples/bpf/xdp2skb_meta_kern.c code in the Kernel source. */
struct cali_metadata {
 // Flags from cali_metadata_flags
 __u32  flags;
}__attribute__((aligned(4)));

enum cali_metadata_flags {
```

```
 // METADATA_ACCEPTED_BY_XDP is set if the packet is already accepted by XDP
 CALI_META_ACCEPTED_BY_XDP = 0x80,
};

#if CALI_F_XDP
// Set metadata to be received by TC programs
static CALI_BPF_INLINE int xdp2tc_set_metadata(struct cali_tc_ctx *ctx, __u32 flags)
{
#ifndef UNITTEST
  struct cali_metadata *metadata;
  // Reserve space in-front of xdp_md.meta for metadata.
  // Drivers not supporting data_meta will fail here.
  int ret = bpf_xdp_adjust_meta(ctx->xdp, -(int)sizeof(*metadata));
  if
 (ret < 0) {
   CALI_DEBUG("Failed to add space for metadata: %d\n", ret);
   goto error;
  }

  if (ctx->xdp->data_meta + sizeof(struct cali_metadata) > ctx->xdp->data) {
   CALI_DEBUG("No enough space for metadata\n");
   goto error;
  }

  metadata = (void *)(unsigned long)ctx->xdp->data_meta;

  CALI_DEBUG("Set metadata for TC: %d\n", flags);
  metadata->flags = flags;
  goto metadata_ok;
#else
 /* In our unit testing we can't use XDP metadata, so we use one of the DSCP
  * bits to indicate that the packet has been accepted.*/
 if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
  CALI_DEBUG("Too short\n");
  goto error;
 }

#ifdef IPVER6
 CALI_DEBUG("IP6 FLOW LBL: %d\n", ip_hdr(ctx)->flow_lbl[2]);
 ip_hdr(ctx)->flow_lbl[2] |= CALI_META_ACCEPTED_BY_XDP;
 CALI_DEBUG("Set IP6 FLOW LBL: %d\n", ip_hdr(ctx)->flow_lbl[2]);
#else
 CALI_DEBUG("IP TOS: %d\n", ip_hdr(ctx)->tos);
 ip_hdr(ctx)->tos |= CALI_META_ACCEPTED_BY_XDP;
 CALI_DEBUG("Set IP TOS: %d\n", ip_hdr(ctx)->tos);
#endif
 goto
```

```
 metadata_ok;
#endif

error:
 return -1;

metadata_ok:
 return 0;
}
#else /* CALI_F_XDP */

// Fetch metadata set by XDP program. If not set or on error return 0.
static CALI_BPF_INLINE __u32 xdp2tc_get_metadata(struct __sk_buff *skb) {
 struct cali_metadata *metadata;
#ifndef UNITTEST
 metadata = (void *)(unsigned long)skb->data_meta;

 if (skb->data_meta + sizeof(struct cali_metadata) > skb->data) {
  CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "No metadata is shared by XDP\n");
  goto no_metadata;
 }

 CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "Received metadata from XDP: %d\n", metadata->flags);
 goto metadata_ok;
#else
 struct cali_tc_ctx ctx = {
  .skb = skb,
  .ipheader_len = IP_SIZE,
 };

 if (skb_refresh_validate_ptrs(&ctx, UDP_SIZE)) {
  CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "Too short\n");
  goto no_metadata;
 }

 struct cali_metadata unittest_metadata = {};
#ifdef IPVER6
 CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "IP6 Flow label: %d\n", ip_hdr(&ctx)->flow_lbl[2]);
 unittest_metadata.flags
 = ip_hdr(&ctx)->flow_lbl[2];
 ip_hdr(&ctx)->flow_lbl[2] &= (~CALI_META_ACCEPTED_BY_XDP);
 CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "Set IP6 Flow label: %d\n", ip_hdr(&ctx)->flow_lbl[2]);
#else
 CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "IP TOS: %d\n", ip_hdr(&ctx)->tos);
 unittest_metadata.flags = ip_hdr(&ctx)->tos;
 ip_hdr(&ctx)->tos &= (~CALI_META_ACCEPTED_BY_XDP);
 CALI_LOG_IF(CALI_LOG_LEVEL_DEBUG, "Set IP TOS: %d\n", ip_hdr(&ctx)->tos);
#endif
```

```
 metadata = &unittest_metadata;
 goto metadata_ok;
#endif /* UNITTEST */

no_metadata:
 return 0;

metadata_ok:
 return metadata->flags;
}

#endif /* CALI_F_XDP */

#endif /* __CALI_METADATA_H__ */
// Project Calico BPF dataplane programs.
// Copyright (c) 2020-2022 Tigera, Inc. All rights reserved.
// SPDX-License-Identifier: Apache-2.0 OR GPL-2.0-or-later

#ifndef __CALI_BPF_H__
#define __CALI_BPF_H__

#include <linux/types.h>
#include <linux/bpf.h>
#include <bpf_helpers.h>   /* For bpf_xxx helper functions. */
#include <bpf_endian.h>    /* For bpf_ntohX etc. */
#include <bpf_core_read.h>
#include <stddef.h>
#include <linux/ip.h>

/* CALI_BPF_INLINE must be defined before we include any of our headers. They
* assume it exists!
*/
#define CALI_BPF_INLINE inline __attribute__((always_inline))

#include "globals.h"

#define BPF_REDIR_EGRESS 0
#define BPF_REDIR_INGRESS 1

/* These constants must be kept in sync with the calculate-flags script. */

// CALI_TC_HOST_EP is set for all host interfaces including tunnels.
#define CALI_TC_HOST_EP  (1<<0)
// CALI_TC_INGRESS is set when compiling a program in the "ingress" direction as defined by
// policy.  For host endpoints, ingress has
 its natural meaning (towards the host namespace)
// and it agrees with TC's definition of ingress. For workload endpoint programs, ingress is
// relative to the workload so the ingress program is applied at egress from the host namespace
```

```
// and vice-versa.
#define CALI_TC_INGRESS  (1<<1)
// CALI_TC_TUNNEL is set when compiling the program for the IPIP tunnel. It is *not* set
// when compiling the wireguard or tunnel program (or VXLAN).  IPIP is a special case because
// it is a layer 3 device, so we don't see an ethernet header on packets arriving from the IPIP
// device.
#define CALI_TC_TUNNEL  (1<<2)
// CALI_CGROUP is set when compiling the cgroup connect-time load balancer programs.
#define CALI_CGROUP  (1<<3)
// CALI_TC_DSR is set when compiling programs for DSR mode.  In DSR mode, traffic to node
// ports is encapped on the "request" leg but the response is returned directly from the
// node with the backing workload.
#define CALI_TC_DSR  (1<<4)
// CALI_L3_DEV is set for any L3 device
 such as wireguard and IPIP tunnels that act fully
// at layer 3. In kernels before 5.14 (rhel 4.18.0-330) IPIP tunnels on inbound
// direction were acting differently, where they could see outer ethernet and ip headers.
#define CALI_TC_L3_DEV  (1<<5)
// CALI_XDP_PROG is set for programs attached to the XDP hook
#define CALI_XDP_PROG  (1<<6)
#define CALI_TC_NAT_IF (1<<7)
#define CALI_TC_LO (1<<8)

#ifndef CALI_DROP_WORKLOAD_TO_HOST
#define CALI_DROP_WORKLOAD_TO_HOST false
#endif

#ifndef CALI_COMPILE_FLAGS
#define CALI_COMPILE_FLAGS 0
#endif

#define CALI_F_INGRESS ((CALI_COMPILE_FLAGS) & CALI_TC_INGRESS)
#define CALI_F_EGRESS  (!CALI_F_INGRESS)

#define CALI_F_HEP       ((CALI_COMPILE_FLAGS) & (CALI_TC_HOST_EP | CALI_TC_NAT_IF))
#define CALI_F_WEP       (!CALI_F_HEP)
#define CALI_F_TUNNEL    (((CALI_COMPILE_FLAGS) & CALI_TC_TUNNEL) != 0)
#define CALI_F_L3_DEV    (((CALI_COMPILE_FLAGS) & CALI_TC_L3_DEV) != 0)
#define CALI_F_NAT_IF    (((CALI_COMPILE_FLAGS) & CALI_TC_NAT_IF) != 0)
#define
 CALI_F_LO        (((CALI_COMPILE_FLAGS) & CALI_TC_LO) != 0)

#define CALI_F_MAIN (CALI_F_HEP && !CALI_F_TUNNEL && !CALI_F_L3_DEV && !CALI_F_NAT_IF
&& !CALI_F_LO)

#define CALI_F_XDP ((CALI_COMPILE_FLAGS) & CALI_XDP_PROG)

#define CALI_F_FROM_HEP (CALI_F_HEP && CALI_F_INGRESS)
```

```
#define CALI_F_TO_HEP   (CALI_F_HEP && !CALI_F_INGRESS)

#define CALI_F_FROM_WEP (CALI_F_WEP && CALI_F_EGRESS)
#define CALI_F_TO_WEP   (CALI_F_WEP && CALI_F_INGRESS)

#define CALI_F_TO_HOST       ((CALI_F_FROM_HEP || CALI_F_FROM_WEP) != 0)
#define CALI_F_FROM_HOST     (!CALI_F_TO_HOST)
#define CALI_F_L3            ((CALI_F_TO_HEP && CALI_F_TUNNEL) || CALI_F_L3_DEV)
#define CALI_F_IPIP_ENCAPPED ((CALI_F_INGRESS && CALI_F_TUNNEL))
#define CALI_F_L3_INGRESS    (CALI_F_INGRESS && CALI_F_L3_DEV)

#define CALI_F_CGROUP (((CALI_COMPILE_FLAGS) & CALI_CGROUP) != 0)
#define CALI_F_DSR ((CALI_COMPILE_FLAGS & CALI_TC_DSR) != 0)

#define CALI_RES_REDIR_BACK 108 /* packet should be sent back the same iface */
#define CALI_RES_REDIR_IFINDEX 109
 /* packet should be sent straight to
        * state->ct_result->ifindex_fwd
        */
#if CALI_RES_REDIR_BACK <= TC_ACT_VALUE_MAX
#error CALI_RES_ values need to be increased above TC_ACT_VALUE_MAX
#endif

#ifndef CALI_FIB_LOOKUP_ENABLED
#define CALI_FIB_LOOKUP_ENABLED true
#endif

#define CALI_FIB_ENABLED (!CALI_F_L3 && CALI_FIB_LOOKUP_ENABLED && (CALI_F_TO_HOST ||
CALI_F_TO_HEP))

#define COMPILE_TIME_ASSERT(expr) {typedef char array[(expr) ? 1 : -1];}
static CALI_BPF_INLINE void __compile_asserts(void) {
#pragma clang diagnostic push
#pragma clang diagnostic ignored "-Wunused-local-typedef"
 /* Either CALI_CGROUP is set or the other TC flags */
 COMPILE_TIME_ASSERT(
  CALI_COMPILE_FLAGS == 0 ||
  !!(CALI_COMPILE_FLAGS & CALI_CGROUP) !=
  !!(CALI_COMPILE_FLAGS & (CALI_TC_HOST_EP | CALI_TC_INGRESS | CALI_TC_TUNNEL |
CALI_TC_DSR | CALI_XDP_PROG))
 );
 COMPILE_TIME_ASSERT(!CALI_F_DSR || (CALI_F_DSR && CALI_F_FROM_WEP) || (CALI_F_DSR &&
CALI_F_HEP));
 COMPILE_TIME_ASSERT(CALI_F_TO_HOST
 || CALI_F_FROM_HOST);
#pragma clang diagnostic pop
}
```

```
/* Calico BPF mode uses bits in the top 3 nibbles of the 32-bit packet mark, specifically
* within 0x1FF00000.  To run successfully in BPF mode, Felix's IptablesMarkMask must be
* configured to _include_ that mask _and_ to have some bits over for use by the
* remaining iptables rules that do not interact with the BPF C code.  (Felix golang code
* checks this at start of day and will shutdown and restart if IptablesMarkMask is
* insufficient.)
*
* Bits used only by C code, or for interaction between C and golang code, must come out
* of the 0x1FF00000, and must be defined compatibly here and in bpf/tc/tc_defs.go.
*
* The internal structure of the top 3 nibbles is as follows:

   . . . .  . . . 1  . . . .       packet SEEN by at least one TC program

   . . . .  . . 1 1  . . . .       BYPASS => SEEN and no further policy checking needed;
                                   remaining bits indicate
 options for how to treat such
                                   packets: FWD, FWD_SRC_FIXUP and NAT_OUT

   . . . .  . 1 0 1  . . . .       FALLTHROUGH => SEEN but no BPF CT state; need to check
                                   against Linux CT state

 . . . .  . . . .  1 . . .   SKIP_FIB => skip fib and send packet to host

   . . . .  1 . . .  . . . .       CT_ESTABLISHED: set by iptables to indicate match
                                   against Linux CT state

   . . . 1  . . . .  . . . .       EGRESS => packet should be routed via an egress gateway

   . . 1 .  . . . .  . . . .       conflicts with WG mark

   . 1 . .  . . . .  . . . .       packet should go back to bpfnatout

   1 . . .  . . . .  . . . .       packet passed through bpfnatout

*/

enum calico_skb_mark {
 /* The "SEEN" bit is set by any BPF program that allows a packet through.  It allows
  * a second BPF program that handles the same packet to determine that another program
  * handled
 it first. */
 CALI_SKB_MARK_SEEN                  = 0x01000000,
 CALI_SKB_MARK_SEEN_MASK             = CALI_SKB_MARK_SEEN,
 /* The "BYPASS" bit is an even stronger indication than "SEEN". It is set by BPF programs
  * that have determined that the packet is approved and any downstream programs do not need
  * to further validate the packet. */
 CALI_SKB_MARK_BYPASS                = CALI_SKB_MARK_SEEN    | 0x02000000,
```

```
/* "BYPASS_FWD" is a special case of "BYPASS" used when a packet returns from one of our
 * VXLAN tunnels.  It tells the downstream program to forward the packet. */
CALI_SKB_MARK_BYPASS_FWD            = CALI_SKB_MARK_BYPASS  | 0x00300000,
/* Now unused mark */
CALI_SKB_MARK_free_to_use           = CALI_SKB_MARK_BYPASS  | 0x00500000,
CALI_SKB_MARK_BYPASS_MASK           = CALI_SKB_MARK_SEEN_MASK | 0x02700000,
/* The FALLTHROUGH bit is used by programs that are towards the host namespace to indicate
 * that the packet is not known in BPF conntrack. We have iptables
rules to drop or allow
 * such packets based on their Linux conntrack state. This allows for us to handle flows that
 * were live before BPF was enabled. */
CALI_SKB_MARK_FALLTHROUGH           = CALI_SKB_MARK_SEEN    | 0x04000000,
/* The NAT_OUT bit is used by programs that are towards the host namespace to tell iptables to
 * do SNAT for this flow.  Subsequent packets will also be allowed to fall through to the host
 * netns. */
CALI_SKB_MARK_NAT_OUT               = CALI_SKB_MARK_BYPASS  | 0x00800000,
/* CALI_SKB_MARK_MASQ enforces MASQ on the connection. */
CALI_SKB_MARK_MASQ                  = CALI_SKB_MARK_BYPASS  | 0x00600000,
/* CALI_SKB_MARK_SKIP_FIB is used for packets that should pass through host IP stack. */
CALI_SKB_MARK_SKIP_FIB              = CALI_SKB_MARK_SEEN | 0x00100000,
/* CT_ESTABLISHED is used by iptables to tell the BPF programs that the packet is part of an
 * established Linux conntrack flow. This allows the BPF program to let through preexisting

* flows at start of day. */
CALI_SKB_MARK_CT_ESTABLISHED        = 0x08000000,
CALI_SKB_MARK_CT_ESTABLISHED_MASK    = 0x08000000,

CALI_SKB_MARK_RESERVED              = 0x11000000,
/* CALI_SKB_MARK_RELATED_RESOLVED mean it is related traffic, we already
 * know that and we have resolved NAT etc.
 */
CALI_SKB_MARK_RELATED_RESOLVED       = 0x21000000,
/* CALI_SKB_MARK_TO_NAT_IFACE_OUT signals to routing that this packet should to
 * to the bpfnatout interface.
 */
CALI_SKB_MARK_TO_NAT_IFACE_OUT       = 0x41000000,
/* CALI_SKB_MARK_FROM_NAT_IFACE_OUT signals to the next hop that the packet passed
 * through bpfnatout so that it can set its conntrack correctly.
 */
CALI_SKB_MARK_FROM_NAT_IFACE_OUT     = 0x81000000,

};

/* bpf_exit inserts a BPF exit instruction with the given return value. In a fully-inlined
* BPF program this allows us to terminate early.  However(!) the exit instruction is also used
* for function return so we need to be careful if we ever
 start using non-inlined
* functions in anger. */
```

```
#pragma clang diagnostic push
#pragma clang diagnostic ignored "-Winvalid-noreturn"
static CALI_BPF_INLINE __attribute__((noreturn)) void bpf_exit(int rc) {
 // Need volatile here because we don't use rc after this assembler fragment.
 // The BPF assembler rejects an input-only operand so we make r0 an in/out operand.
 asm volatile ( \
  "exit" \
  : "=r0" (rc) /*out*/ \
  : "0" (rc) /*in*/ \
  : /*clobber*/ \
 );
}
#pragma clang diagnostic pop

#ifdef IPVER6

#ifdef BPF_CORE_SUPPORTED
#define IP_FMT "[%pI6]"
#define debug_ip(ip) (&(ip))
#else
#define debug_ip(ip) (bpf_htonl((ip).d))
#endif
#define ip_is_dnf(ip) (true)

#else

#ifdef BPF_CORE_SUPPORTED
#define IP_FMT "%pI4"
#define debug_ip(ip) (&(ip))
#else
#define debug_ip(ip) bpf_htonl(ip)
#endif

#define ip_is_dnf(ip) ((ip)->frag_off & bpf_htons(0x4000))
#define ip_frag_no(ip) ((ip)->frag_off & bpf_htons(0x1fff))
#endif

#ifndef IP_FMT
#define IP_FMT "%x"
#endif

static CALI_BPF_INLINE
 void ip_dec_ttl(struct iphdr *ip)
{
 ip->ttl--;
 /* since we change only a single byte, as per RFC-1141 we an adjust it
  * inline without helpers.
  */
```

```
 __u32 sum = ip->check;
 sum += bpf_htons(0x0100);
 ip->check = (__be16) (sum + (sum >> 16));
}

#ifdef IPVER6
#define ip_ttl_exceeded(ip) (CALI_F_TO_HOST && !CALI_F_TUNNEL && (ip)->hop_limit <= 1)
#else
#define ip_ttl_exceeded(ip) (CALI_F_TO_HOST && !CALI_F_TUNNEL && (ip)->ttl <= 1)
#endif

#if CALI_F_XDP

extern const volatile struct cali_xdp_preamble_globals __globals;
#define CALI_CONFIGURABLE(name) 1 /* any value will do, it is not configured */
#define CALI_CONFIGURABLE_IP(name) 1

#elif (!CALI_F_CGROUP) || defined(UNITTEST)

extern const volatile struct cali_tc_preamble_globals __globals;
#define CALI_CONFIGURABLE(name) ctx->globals->data.name
#ifdef IPVER6
#define CALI_CONFIGURABLE_IP(name) CALI_CONFIGURABLE(name)
#else
#define CALI_CONFIGURABLE_IP(name) ctx->globals->data.name.a
#endif
#else

#define CALI_CONFIGURABLE(name)
 1 /* any value will do, it is not configured */
#define CALI_CONFIGURABLE_IP(name) 1

#endif /* loader */

#define HOST_IP  CALI_CONFIGURABLE_IP(host_ip)
#define TUNNEL_MTU  CALI_CONFIGURABLE(tunnel_mtu)
#define VXLAN_PORT  CALI_CONFIGURABLE(vxlan_port)
#define INTF_IP  CALI_CONFIGURABLE_IP(intf_ip)
#define EXT_TO_SVC_MARK CALI_CONFIGURABLE(ext_to_svc_mark)
#define PSNAT_START CALI_CONFIGURABLE(psnat_start)
#define PSNAT_LEN CALI_CONFIGURABLE(psnat_len)
#define GLOBAL_FLAGS  CALI_CONFIGURABLE(flags)
#define HOST_TUNNEL_IP CALI_CONFIGURABLE_IP(host_tunnel_ip)
#define WG_PORT  CALI_CONFIGURABLE(wg_port)
#define NATIN_IFACE CALI_CONFIGURABLE(natin_idx)

#ifdef UNITTEST
#define CALI_PATCH_DEFINE(name, pattern)       \
```

```
static CALI_BPF_INLINE __be32 cali_patch_##name()     \
{           \
 __u32 ret;          \
 asm("%0 = " #pattern ";" : "=r"(ret) /* output */ : /* no inputs */ : /* no clobber */);\
 return ret;          \
}
#define CALI_PATCH(name) cali_patch_##name()

CALI_PATCH_DEFINE(__skb_mark,
 0x4d424b53) /* be 0x4d424b53 = ASCII(SKBM) */
#define SKB_MARK CALI_PATCH(__skb_mark)
#endif

#define map_symbol(name, ver) name##ver

#define MAP_LOOKUP_FN(fname, name, ver) \
static CALI_BPF_INLINE void * fname##_lookup_elem(const void* key) \
{         \
 return bpf_map_lookup_elem(&map_symbol(name, ver), key); \
}

#define MAP_UPDATE_FN(fname, name, ver) \
static CALI_BPF_INLINE int fname##_update_elem(const void* key, const void* value, __u64 flags)\
{          \
 return bpf_map_update_elem(&map_symbol(name, ver), key, value, flags); \
}

#define MAP_DELETE_FN(fname, name, ver) \
static CALI_BPF_INLINE int fname##_delete_elem(const void* key) \
{         \
 return bpf_map_delete_elem(&map_symbol(name, ver), key); \
}

#define CALI_MAP_NAMED(name, fname, ver,  map_type, key_type, val_type, size, flags)  \
struct {          \
 __uint(type, map_type);        \
 __type(key, key_type);        \
 __type(value, val_type);       \
 __uint(max_entries, size);       \
 __uint(map_flags,
 flags);       \
}map_symbol(name, ver) SEC(".maps");       \
 MAP_LOOKUP_FN(fname, name, ver)       \
 MAP_UPDATE_FN(fname, name, ver)       \
 MAP_DELETE_FN(fname, name, ver)

#define CALI_MAP(name, ver, map_type, key_type, val_type, size, flags)   \
  CALI_MAP_NAMED(name, name, ver,  map_type, key_type, val_type, size, flags)
```

```
#define CALI_MAP_V1(name, map_type, key_type, val_type, size, flags)   \
  CALI_MAP(name,, map_type, key_type, val_type, size, flags)

char ____license[] __attribute__((section("license"), used)) = "GPL";

#define NEXTHDR_HOP  0
#define NEXTHDR_ROUTING  43
#define NEXTHDR_FRAGMENT 44
#define NEXTHDR_GRE  47
#define NEXTHDR_ESP  50
#define NEXTHDR_AUTH  51
#define NEXTHDR_NONE  59
#define NEXTHDR_DEST  60
#define NEXTHDR_MOBILITY 135

#endif /* __CALI_BPF_H__ */
# TEMPORARY
sockmap_listen/sockhash VSOCK test_vsock_redir
usdt/basic                          # failing verifier due to bounds check after LLVM update
usdt/multispec                        # same as above

deny_namespace                        # not yet in bpf denylist
tc_redirect/tc_redirect_dtime           # very flaky
lru_bug                             # not yet in bpf-next denylist

# Disabled temporarily for a crash.
# https://lore.kernel.org/bpf/c9923c1d-971d-4022-8dc8-1364e929d34c@gmail.com/
dummy_st_ops/dummy_init_ptr_arg
fexit_bpf2bpf
tailcalls
trace_ext
xdp_bpf2bpf
xdp_metadata
#ifndef _CTLB_H_
#define _CTLB_H_

const volatile struct cali_ctlb_globals __globals;
#define CTLB_UDP_NOT_SEEN_TIMEO __globals.udp_not_seen_timeo
#define CTLB_EXCLUDE_UDP __globals.exclude_udp

#endif /* _CTLB_H_ */
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
#ifndef _UAPI_LINUX_IF_LINK_H
#define _UAPI_LINUX_IF_LINK_H

#include <linux/types.h>
#include <linux/netlink.h>
```

```
/* This struct should be in sync with struct rtnl_link_stats64 */
struct rtnl_link_stats {
 __u32 rx_packets;
 __u32 tx_packets;
 __u32 rx_bytes;
 __u32 tx_bytes;
 __u32 rx_errors;
 __u32 tx_errors;
 __u32 rx_dropped;
 __u32 tx_dropped;
 __u32 multicast;
 __u32 collisions;
 /* detailed rx_errors: */
 __u32 rx_length_errors;
 __u32 rx_over_errors;
 __u32 rx_crc_errors;
 __u32 rx_frame_errors;
 __u32 rx_fifo_errors;
 __u32 rx_missed_errors;

 /* detailed tx_errors */
 __u32 tx_aborted_errors;
 __u32 tx_carrier_errors;
 __u32 tx_fifo_errors;
 __u32 tx_heartbeat_errors;
 __u32 tx_window_errors;

 /* for cslip etc */
 __u32 rx_compressed;
 __u32 tx_compressed;

 __u32 rx_nohandler;
};

/**
* struct rtnl_link_stats64 - The main device statistics structure.
*
* @rx_packets: Number of good packets received by the interface.
 *   For hardware interfaces counts all good packets received from the device
*   by the host, including packets which host had to drop at various stages
*   of processing (even in the driver).
*
* @tx_packets: Number of packets successfully transmitted.
*   For hardware interfaces counts packets which host was able to successfully
*   hand over to the device, which does not necessarily mean that packets
*   had been successfully transmitted out of the device, only that device
*   acknowledged it copied them out of host memory.
```

```
*
* @rx_bytes: Number of good received bytes, corresponding to @rx_packets.
*
*   For IEEE 802.3 devices should count the length of Ethernet Frames
*   excluding the FCS.
*
* @tx_bytes: Number of good transmitted bytes, corresponding to @tx_packets.
*
*   For IEEE 802.3 devices should count the length of Ethernet Frames
*   excluding the FCS.
*
* @rx_errors: Total number of bad packets received on this network device.
*   This counter
 must include events counted by @rx_length_errors,
*   @rx_crc_errors, @rx_frame_errors and other errors not otherwise
*   counted.
*
* @tx_errors: Total number of transmit problems.
*   This counter must include events counter by @tx_aborted_errors,
*   @tx_carrier_errors, @tx_fifo_errors, @tx_heartbeat_errors,
*   @tx_window_errors and other errors not otherwise counted.
*
* @rx_dropped: Number of packets received but not processed,
*   e.g. due to lack of resources or unsupported protocol.
*   For hardware interfaces this counter may include packets discarded
*   due to L2 address filtering but should not include packets dropped
*   by the device due to buffer exhaustion which are counted separately in
*   @rx_missed_errors (since procfs folds those two counters together).
*
* @tx_dropped: Number of packets dropped on their way to transmission,
*   e.g. due to lack of resources.
*
* @multicast: Multicast packets received.
*   For hardware interfaces this statistic
 is commonly calculated
*   at the device level (unlike @rx_packets) and therefore may include
*   packets which did not reach the host.
*
*   For IEEE 802.3 devices this counter may be equivalent to:
*
*    - 30.3.1.1.21 aMulticastFramesReceivedOK
*
* @collisions: Number of collisions during packet transmissions.
*
* @rx_length_errors: Number of packets dropped due to invalid length.
*   Part of aggregate "frame" errors in `/proc/net/dev`.
*
*   For IEEE 802.3 devices this counter should be equivalent to a sum
```

```
*   of the following attributes:
*
*    - 30.3.1.1.23 aInRangeLengthErrors
*    - 30.3.1.1.24 aOutOfRangeLengthField
*    - 30.3.1.1.25 aFrameTooLongErrors
*
* @rx_over_errors: Receiver FIFO overflow event counter.
*
*   Historically the count of overflow events. Such events may be
*   reported in the receive descriptors or via interrupts, and may
*   not correspond one-to-one with dropped packets.
*
*   The recommended interpretation for high speed interfaces
 is -
*   number of packets dropped because they did not fit into buffers
*   provided by the host, e.g. packets larger than MTU or next buffer
*   in the ring was not available for a scatter transfer.
*
*   Part of aggregate "frame" errors in `/proc/net/dev`.
*
*   This statistics was historically used interchangeably with
*   @rx_fifo_errors.
*
*   This statistic corresponds to hardware events and is not commonly used
*   on software devices.
*
* @rx_crc_errors: Number of packets received with a CRC error.
*   Part of aggregate "frame" errors in `/proc/net/dev`.
*
*   For IEEE 802.3 devices this counter must be equivalent to:
*
*    - 30.3.1.1.6 aFrameCheckSequenceErrors
*
* @rx_frame_errors: Receiver frame alignment errors.
*   Part of aggregate "frame" errors in `/proc/net/dev`.
*
*   For IEEE 802.3 devices this counter should be equivalent to:
*
*    - 30.3.1.1.7 aAlignmentErrors
*
* @rx_fifo_errors: Receiver FIFO error counter.
*
*   Historically
 the count of overflow events. Those events may be
*   reported in the receive descriptors or via interrupts, and may
*   not correspond one-to-one with dropped packets.
*
*   This statistics was used interchangeably with @rx_over_errors.
```

```
*   Not recommended for use in drivers for high speed interfaces.
*
*   This statistic is used on software devices, e.g. to count software
*   packet queue overflow (can) or sequencing errors (GRE).
*
* @rx_missed_errors: Count of packets missed by the host.
*   Folded into the "drop" counter in `/proc/net/dev`.
*
*   Counts number of packets dropped by the device due to lack
*   of buffer space. This usually indicates that the host interface
*   is slower than the network interface, or host is not keeping up
*   with the receive packet rate.
*
*   This statistic corresponds to hardware events and is not used
*   on software devices.
*
* @tx_aborted_errors:
*   Part of aggregate "carrier" errors in `/proc/net/dev`.
*   For IEEE
 802.3 devices capable of half-duplex operation this counter
*   must be equivalent to:
*
*    - 30.3.1.1.11 aFramesAbortedDueToXSColls
*
*   High speed interfaces may use this counter as a general device
*   discard counter.
*
* @tx_carrier_errors: Number of frame transmission errors due to loss
*   of carrier during transmission.
*   Part of aggregate "carrier" errors in `/proc/net/dev`.
*
*   For IEEE 802.3 devices this counter must be equivalent to:
*
*    - 30.3.1.1.13 aCarrierSenseErrors
*
* @tx_fifo_errors: Number of frame transmission errors due to device
*   FIFO underrun / underflow. This condition occurs when the device
*   begins transmission of a frame but is unable to deliver the
*   entire frame to the transmitter in time for transmission.
*   Part of aggregate "carrier" errors in `/proc/net/dev`.
*
* @tx_heartbeat_errors: Number of Heartbeat / SQE Test errors for
*   old half-duplex Ethernet.
*   Part of aggregate "carrier" errors in `/proc/net/dev`.
 *
*   For IEEE 802.3 devices possibly equivalent to:
*
*    - 30.3.2.1.4 aSQETestErrors
```

```
*
* @tx_window_errors: Number of frame transmission errors due
*   to late collisions (for Ethernet - after the first 64B of transmission).
*   Part of aggregate "carrier" errors in `/proc/net/dev`.
*
*   For IEEE 802.3 devices this counter must be equivalent to:
*
*    - 30.3.1.1.10 aLateCollisions
*
* @rx_compressed: Number of correctly received compressed packets.
*   This counters is only meaningful for interfaces which support
*   packet compression (e.g. CSLIP, PPP).
*
* @tx_compressed: Number of transmitted compressed packets.
*   This counters is only meaningful for interfaces which support
*   packet compression (e.g. CSLIP, PPP).
*
* @rx_nohandler: Number of packets received on the interface
*   but dropped by the networking stack because the device is
*   not designated to receive packets (e.g. backup link in a bond).
*
* @rx_otherhost_dropped: Number of packets
 dropped due to mismatch
*   in destination MAC address.
*/
struct rtnl_link_stats64 {
 __u64 rx_packets;
 __u64 tx_packets;
 __u64 rx_bytes;
 __u64 tx_bytes;
 __u64 rx_errors;
 __u64 tx_errors;
 __u64 rx_dropped;
 __u64 tx_dropped;
 __u64 multicast;
 __u64 collisions;

 /* detailed rx_errors: */
 __u64 rx_length_errors;
 __u64 rx_over_errors;
 __u64 rx_crc_errors;
 __u64 rx_frame_errors;
 __u64 rx_fifo_errors;
 __u64 rx_missed_errors;

 /* detailed tx_errors */
 __u64 tx_aborted_errors;
 __u64 tx_carrier_errors;
```

```
 __u64 tx_fifo_errors;
 __u64 tx_heartbeat_errors;
 __u64 tx_window_errors;

 /* for cslip etc */
 __u64 rx_compressed;
 __u64 tx_compressed;
 __u64 rx_nohandler;

 __u64 rx_otherhost_dropped;
};

/* Subset of link stats useful for in-HW collection. Meaning of the fields is as
* for struct rtnl_link_stats64.
*/
struct rtnl_hw_stats64 {
 __u64 rx_packets;
 __u64 tx_packets;
 __u64 rx_bytes;
 __u64 tx_bytes;
 __u64 rx_errors;
 __u64 tx_errors;
 __u64 rx_dropped;
 __u64 tx_dropped;
 __u64 multicast;
};

/*
 The struct should be in sync with struct ifmap */
struct rtnl_link_ifmap {
 __u64 mem_start;
 __u64 mem_end;
 __u64 base_addr;
 __u16 irq;
 __u8 dma;
 __u8 port;
};

/*
* IFLA_AF_SPEC
*   Contains nested attributes for address family specific attributes.
*   Each address family may create a attribute with the address family
*   number as type and create its own attribute structure in it.
*
*   Example:
*   [IFLA_AF_SPEC] = {
*       [AF_INET] = {
*           [IFLA_INET_CONF] = ...,
```

```
*       },
*       [AF_INET6] = {
*           [IFLA_INET6_FLAGS] = ...,
*           [IFLA_INET6_CONF] = ...,
*       }
*   }
*/

enum {
 IFLA_UNSPEC,
 IFLA_ADDRESS,
 IFLA_BROADCAST,
 IFLA_IFNAME,
 IFLA_MTU,
 IFLA_LINK,
 IFLA_QDISC,
 IFLA_STATS,
 IFLA_COST,
#define IFLA_COST IFLA_COST
 IFLA_PRIORITY,
#define IFLA_PRIORITY IFLA_PRIORITY
 IFLA_MASTER,
#define IFLA_MASTER IFLA_MASTER
 IFLA_WIRELESS,  /* Wireless Extension event - see wireless.h */
#define IFLA_WIRELESS
 IFLA_WIRELESS
 IFLA_PROTINFO,  /* Protocol specific information for a link */
#define IFLA_PROTINFO IFLA_PROTINFO
 IFLA_TXQLEN,
#define IFLA_TXQLEN IFLA_TXQLEN
 IFLA_MAP,
#define IFLA_MAP IFLA_MAP
 IFLA_WEIGHT,
#define IFLA_WEIGHT IFLA_WEIGHT
 IFLA_OPERSTATE,
 IFLA_LINKMODE,
 IFLA_LINKINFO,
#define IFLA_LINKINFO IFLA_LINKINFO
 IFLA_NET_NS_PID,
 IFLA_IFALIAS,
 IFLA_NUM_VF,  /* Number of VFs if device is SR-IOV PF */
 IFLA_VFINFO_LIST,
 IFLA_STATS64,
 IFLA_VF_PORTS,
 IFLA_PORT_SELF,
 IFLA_AF_SPEC,
 IFLA_GROUP,  /* Group the device belongs to */
 IFLA_NET_NS_FD,
```

```
 IFLA_EXT_MASK,  /* Extended info mask, VFs, etc */
 IFLA_PROMISCUITY, /* Promiscuity count: > 0 means acts PROMISC */
#define IFLA_PROMISCUITY IFLA_PROMISCUITY
 IFLA_NUM_TX_QUEUES,
 IFLA_NUM_RX_QUEUES,
 IFLA_CARRIER,
 IFLA_PHYS_PORT_ID,
 IFLA_CARRIER_CHANGES,
 IFLA_PHYS_SWITCH_ID,
 IFLA_LINK_NETNSID,
 IFLA_PHYS_PORT_NAME,
 IFLA_PROTO_DOWN,
 IFLA_GSO_MAX_SEGS,
 IFLA_GSO_MAX_SIZE,
 IFLA_PAD,
 IFLA_XDP,
 IFLA_EVENT,
 IFLA_NEW_NETNSID,
 IFLA_IF_NETNSID,
 IFLA_TARGET_NETNSID
 = IFLA_IF_NETNSID, /* new alias */
 IFLA_CARRIER_UP_COUNT,
 IFLA_CARRIER_DOWN_COUNT,
 IFLA_NEW_IFINDEX,
 IFLA_MIN_MTU,
 IFLA_MAX_MTU,
 IFLA_PROP_LIST,
 IFLA_ALT_IFNAME, /* Alternative ifname */
 IFLA_PERM_ADDRESS,
 IFLA_PROTO_DOWN_REASON,

 /* device (sysfs) name as parent, used instead
  * of IFLA_LINK where there's no parent netdev
  */
 IFLA_PARENT_DEV_NAME,
 IFLA_PARENT_DEV_BUS_NAME,
 IFLA_GRO_MAX_SIZE,
 IFLA_TSO_MAX_SIZE,
 IFLA_TSO_MAX_SEGS,
 IFLA_ALLMULTI,  /* Allmulti count: > 0 means acts ALLMULTI */

 IFLA_DEVLINK_PORT,

 IFLA_GSO_IPV4_MAX_SIZE,
 IFLA_GRO_IPV4_MAX_SIZE,
 IFLA_DPLL_PIN,
 __IFLA_MAX
};
```

```
#define IFLA_MAX (__IFLA_MAX - 1)

enum {
 IFLA_PROTO_DOWN_REASON_UNSPEC,
 IFLA_PROTO_DOWN_REASON_MASK, /* u32, mask for reason bits */
 IFLA_PROTO_DOWN_REASON_VALUE,   /* u32, reason bit value */

 __IFLA_PROTO_DOWN_REASON_CNT,
 IFLA_PROTO_DOWN_REASON_MAX = __IFLA_PROTO_DOWN_REASON_CNT - 1
};

/* backwards compatibility for userspace
 */
#ifndef __KERNEL__
#define IFLA_RTA(r)  ((struct rtattr*)(((char*)(r)) + NLMSG_ALIGN(sizeof(struct ifinfomsg))))
#define IFLA_PAYLOAD(n) NLMSG_PAYLOAD(n,sizeof(struct ifinfomsg))
#endif

enum {
 IFLA_INET_UNSPEC,
 IFLA_INET_CONF,
 __IFLA_INET_MAX,
};

#define IFLA_INET_MAX (__IFLA_INET_MAX - 1)

/* ifi_flags.

  IFF_* flags.

  The only change is:
  IFF_LOOPBACK, IFF_BROADCAST and IFF_POINTOPOINT are
  more not changeable by user. They describe link media
  characteristics and set by device driver.

  Comments:
  - Combination IFF_BROADCAST|IFF_POINTOPOINT is invalid
  - If neither of these three flags are set;
    the interface is NBMA.

  - IFF_MULTICAST does not mean anything special:
  multicasts can be used on all not-NBMA links.
  IFF_MULTICAST means that this media uses special encapsulation
  for multicast frames. Apparently, all IFF_POINTOPOINT and
  IFF_BROADCAST devices are able to use multicasts too.
*/
```

```
/* IFLA_LINK.
  For usual devices it is equal
 ifi_index.
  If it is a "virtual interface" (f.e. tunnel), ifi_link
  can point to real physical interface (f.e. for bandwidth calculations),
  or maybe 0, what means, that real media is unknown (usual
  for IPIP tunnels, when route to endpoint is allowed to change)
*/

/* Subtype attributes for IFLA_PROTINFO */
enum {
 IFLA_INET6_UNSPEC,
 IFLA_INET6_FLAGS, /* link flags   */
 IFLA_INET6_CONF, /* sysctl parameters  */
 IFLA_INET6_STATS, /* statistics   */
 IFLA_INET6_MCAST, /* MC things. What of them? */
 IFLA_INET6_CACHEINFO, /* time values and max reasm size */
 IFLA_INET6_ICMP6STATS, /* statistics (icmpv6)  */
 IFLA_INET6_TOKEN, /* device token   */
 IFLA_INET6_ADDR_GEN_MODE, /* implicit address generator mode */
 IFLA_INET6_RA_MTU, /* mtu carried in the RA message */
 __IFLA_INET6_MAX
};

#define IFLA_INET6_MAX (__IFLA_INET6_MAX - 1)

enum in6_addr_gen_mode {
 IN6_ADDR_GEN_MODE_EUI64,
 IN6_ADDR_GEN_MODE_NONE,
 IN6_ADDR_GEN_MODE_STABLE_PRIVACY,
 IN6_ADDR_GEN_MODE_RANDOM,
};

/*
 Bridge section */

enum {
 IFLA_BR_UNSPEC,
 IFLA_BR_FORWARD_DELAY,
 IFLA_BR_HELLO_TIME,
 IFLA_BR_MAX_AGE,
 IFLA_BR_AGEING_TIME,
 IFLA_BR_STP_STATE,
 IFLA_BR_PRIORITY,
 IFLA_BR_VLAN_FILTERING,
 IFLA_BR_VLAN_PROTOCOL,
 IFLA_BR_GROUP_FWD_MASK,
```

```
 IFLA_BR_ROOT_ID,
 IFLA_BR_BRIDGE_ID,
 IFLA_BR_ROOT_PORT,
 IFLA_BR_ROOT_PATH_COST,
 IFLA_BR_TOPOLOGY_CHANGE,
 IFLA_BR_TOPOLOGY_CHANGE_DETECTED,
 IFLA_BR_HELLO_TIMER,
 IFLA_BR_TCN_TIMER,
 IFLA_BR_TOPOLOGY_CHANGE_TIMER,
 IFLA_BR_GC_TIMER,
 IFLA_BR_GROUP_ADDR,
 IFLA_BR_FDB_FLUSH,
 IFLA_BR_MCAST_ROUTER,
 IFLA_BR_MCAST_SNOOPING,
 IFLA_BR_MCAST_QUERY_USE_IFADDR,
 IFLA_BR_MCAST_QUERIER,
 IFLA_BR_MCAST_HASH_ELASTICITY,
 IFLA_BR_MCAST_HASH_MAX,
 IFLA_BR_MCAST_LAST_MEMBER_CNT,
 IFLA_BR_MCAST_STARTUP_QUERY_CNT,
 IFLA_BR_MCAST_LAST_MEMBER_INTVL,
 IFLA_BR_MCAST_MEMBERSHIP_INTVL,
 IFLA_BR_MCAST_QUERIER_INTVL,
 IFLA_BR_MCAST_QUERY_INTVL,
 IFLA_BR_MCAST_QUERY_RESPONSE_INTVL,
 IFLA_BR_MCAST_STARTUP_QUERY_INTVL,
 IFLA_BR_NF_CALL_IPTABLES,
 IFLA_BR_NF_CALL_IP6TABLES,
 IFLA_BR_NF_CALL_ARPTABLES,
 IFLA_BR_VLAN_DEFAULT_PVID,
 IFLA_BR_PAD,
 IFLA_BR_VLAN_STATS_ENABLED,
 IFLA_BR_MCAST_STATS_ENABLED,
 IFLA_BR_MCAST_IGMP_VERSION,
 IFLA_BR_MCAST_MLD_VERSION,
 IFLA_BR_VLAN_STATS_PER_PORT,
 IFLA_BR_MULTI_BOOLOPT,
 IFLA_BR_MCAST_QUERIER_STATE,
 __IFLA_BR_MAX,
};

#define
 IFLA_BR_MAX (__IFLA_BR_MAX - 1)

struct ifla_bridge_id {
 __u8 prio[2];
 __u8 addr[6]; /* ETH_ALEN */
};
```

```
enum {
 BRIDGE_MODE_UNSPEC,
 BRIDGE_MODE_HAIRPIN,
};

enum {
 IFLA_BRPORT_UNSPEC,
 IFLA_BRPORT_STATE, /* Spanning tree state     */
 IFLA_BRPORT_PRIORITY, /* "             priority  */
 IFLA_BRPORT_COST, /* "             cost      */
 IFLA_BRPORT_MODE, /* mode (hairpin)          */
 IFLA_BRPORT_GUARD, /* bpdu guard              */
 IFLA_BRPORT_PROTECT, /* root port protection    */
 IFLA_BRPORT_FAST_LEAVE, /* multicast fast leave    */
 IFLA_BRPORT_LEARNING, /* mac learning */
 IFLA_BRPORT_UNICAST_FLOOD, /* flood unicast traffic */
 IFLA_BRPORT_PROXYARP, /* proxy ARP */
 IFLA_BRPORT_LEARNING_SYNC,
 /* mac learning sync from device */
 IFLA_BRPORT_PROXYARP_WIFI, /* proxy ARP for Wi-Fi */
 IFLA_BRPORT_ROOT_ID, /* designated root */
 IFLA_BRPORT_BRIDGE_ID, /* designated bridge */
 IFLA_BRPORT_DESIGNATED_PORT,
 IFLA_BRPORT_DESIGNATED_COST,
 IFLA_BRPORT_ID,
 IFLA_BRPORT_NO,
 IFLA_BRPORT_TOPOLOGY_CHANGE_ACK,
 IFLA_BRPORT_CONFIG_PENDING,
 IFLA_BRPORT_MESSAGE_AGE_TIMER,
 IFLA_BRPORT_FORWARD_DELAY_TIMER,
 IFLA_BRPORT_HOLD_TIMER,
 IFLA_BRPORT_FLUSH,
 IFLA_BRPORT_MULTICAST_ROUTER,
 IFLA_BRPORT_PAD,
 IFLA_BRPORT_MCAST_FLOOD,
 IFLA_BRPORT_MCAST_TO_UCAST,
 IFLA_BRPORT_VLAN_TUNNEL,
 IFLA_BRPORT_BCAST_FLOOD,
 IFLA_BRPORT_GROUP_FWD_MASK,
 IFLA_BRPORT_NEIGH_SUPPRESS,
 IFLA_BRPORT_ISOLATED,
 IFLA_BRPORT_BACKUP_PORT,
 IFLA_BRPORT_MRP_RING_OPEN,
 IFLA_BRPORT_MRP_IN_OPEN,
 IFLA_BRPORT_MCAST_EHT_HOSTS_LIMIT,
 IFLA_BRPORT_MCAST_EHT_HOSTS_CNT,
 IFLA_BRPORT_LOCKED,
```

```
 IFLA_BRPORT_MAB,
 IFLA_BRPORT_MCAST_N_GROUPS,
 IFLA_BRPORT_MCAST_MAX_GROUPS,
 IFLA_BRPORT_NEIGH_VLAN_SUPPRESS,
 IFLA_BRPORT_BACKUP_NHID,
 __IFLA_BRPORT_MAX
};
#define
 IFLA_BRPORT_MAX (__IFLA_BRPORT_MAX - 1)

struct ifla_cacheinfo {
 __u32 max_reasm_len;
 __u32 tstamp;  /* ipv6InterfaceTable updated timestamp */
 __u32 reachable_time;
 __u32 retrans_time;
};

enum {
 IFLA_INFO_UNSPEC,
 IFLA_INFO_KIND,
 IFLA_INFO_DATA,
 IFLA_INFO_XSTATS,
 IFLA_INFO_SLAVE_KIND,
 IFLA_INFO_SLAVE_DATA,
 __IFLA_INFO_MAX,
};

#define IFLA_INFO_MAX (__IFLA_INFO_MAX - 1)

/* VLAN section */

enum {
 IFLA_VLAN_UNSPEC,
 IFLA_VLAN_ID,
 IFLA_VLAN_FLAGS,
 IFLA_VLAN_EGRESS_QOS,
 IFLA_VLAN_INGRESS_QOS,
 IFLA_VLAN_PROTOCOL,
 __IFLA_VLAN_MAX,
};

#define IFLA_VLAN_MAX (__IFLA_VLAN_MAX - 1)

struct ifla_vlan_flags {
 __u32 flags;
 __u32 mask;
};
```

```
enum {
 IFLA_VLAN_QOS_UNSPEC,
 IFLA_VLAN_QOS_MAPPING,
 __IFLA_VLAN_QOS_MAX
};

#define IFLA_VLAN_QOS_MAX (__IFLA_VLAN_QOS_MAX - 1)

struct ifla_vlan_qos_mapping {
 __u32 from;
 __u32 to;
};

/* MACVLAN section */
enum {
 IFLA_MACVLAN_UNSPEC,
 IFLA_MACVLAN_MODE,
 IFLA_MACVLAN_FLAGS,
 IFLA_MACVLAN_MACADDR_MODE,
 IFLA_MACVLAN_MACADDR,
 IFLA_MACVLAN_MACADDR_DATA,
 IFLA_MACVLAN_MACADDR_COUNT,
 IFLA_MACVLAN_BC_QUEUE_LEN,
 IFLA_MACVLAN_BC_QUEUE_LEN_USED,
 IFLA_MACVLAN_BC_CUTOFF,
 __IFLA_MACVLAN_MAX,
};

#define
 IFLA_MACVLAN_MAX (__IFLA_MACVLAN_MAX - 1)

enum macvlan_mode {
 MACVLAN_MODE_PRIVATE = 1, /* don't talk to other macvlans */
 MACVLAN_MODE_VEPA    = 2, /* talk to other ports through ext bridge */
 MACVLAN_MODE_BRIDGE  = 4, /* talk to bridge ports directly */
 MACVLAN_MODE_PASSTHRU = 8,/* take over the underlying device */
 MACVLAN_MODE_SOURCE  = 16,/* use source MAC address list to assign */
};

enum macvlan_macaddr_mode {
 MACVLAN_MACADDR_ADD,
 MACVLAN_MACADDR_DEL,
 MACVLAN_MACADDR_FLUSH,
 MACVLAN_MACADDR_SET,
};

#define MACVLAN_FLAG_NOPROMISC 1
#define MACVLAN_FLAG_NODST 2 /* skip dst macvlan if matching src macvlan */
```

```
/* VRF section */
enum {
 IFLA_VRF_UNSPEC,
 IFLA_VRF_TABLE,
 __IFLA_VRF_MAX
};

#define IFLA_VRF_MAX (__IFLA_VRF_MAX - 1)

enum {
 IFLA_VRF_PORT_UNSPEC,
 IFLA_VRF_PORT_TABLE,
 __IFLA_VRF_PORT_MAX
};

#define
 IFLA_VRF_PORT_MAX (__IFLA_VRF_PORT_MAX - 1)

/* MACSEC section */
enum {
 IFLA_MACSEC_UNSPEC,
 IFLA_MACSEC_SCI,
 IFLA_MACSEC_PORT,
 IFLA_MACSEC_ICV_LEN,
 IFLA_MACSEC_CIPHER_SUITE,
 IFLA_MACSEC_WINDOW,
 IFLA_MACSEC_ENCODING_SA,
 IFLA_MACSEC_ENCRYPT,
 IFLA_MACSEC_PROTECT,
 IFLA_MACSEC_INC_SCI,
 IFLA_MACSEC_ES,
 IFLA_MACSEC_SCB,
 IFLA_MACSEC_REPLAY_PROTECT,
 IFLA_MACSEC_VALIDATION,
 IFLA_MACSEC_PAD,
 IFLA_MACSEC_OFFLOAD,
 __IFLA_MACSEC_MAX,
};

#define IFLA_MACSEC_MAX (__IFLA_MACSEC_MAX - 1)

/* XFRM section */
enum {
 IFLA_XFRM_UNSPEC,
 IFLA_XFRM_LINK,
 IFLA_XFRM_IF_ID,
 IFLA_XFRM_COLLECT_METADATA,
```

```
 __IFLA_XFRM_MAX
};

#define IFLA_XFRM_MAX (__IFLA_XFRM_MAX - 1)

enum macsec_validation_type {
 MACSEC_VALIDATE_DISABLED = 0,
 MACSEC_VALIDATE_CHECK = 1,
 MACSEC_VALIDATE_STRICT = 2,
 __MACSEC_VALIDATE_END,
 MACSEC_VALIDATE_MAX = __MACSEC_VALIDATE_END - 1,
};

enum macsec_offload {
 MACSEC_OFFLOAD_OFF = 0,
 MACSEC_OFFLOAD_PHY = 1,
 MACSEC_OFFLOAD_MAC
 = 2,
 __MACSEC_OFFLOAD_END,
 MACSEC_OFFLOAD_MAX = __MACSEC_OFFLOAD_END - 1,
};

/* IPVLAN section */
enum {
 IFLA_IPVLAN_UNSPEC,
 IFLA_IPVLAN_MODE,
 IFLA_IPVLAN_FLAGS,
 __IFLA_IPVLAN_MAX
};

#define IFLA_IPVLAN_MAX (__IFLA_IPVLAN_MAX - 1)

enum ipvlan_mode {
 IPVLAN_MODE_L2 = 0,
 IPVLAN_MODE_L3,
 IPVLAN_MODE_L3S,
 IPVLAN_MODE_MAX
};

#define IPVLAN_F_PRIVATE 0x01
#define IPVLAN_F_VEPA  0x02

/* Tunnel RTM header */
struct tunnel_msg {
 __u8 family;
 __u8 flags;
 __u16 reserved2;
 __u32 ifindex;
```

```
};

/* netkit section */
enum netkit_action {
 NETKIT_NEXT = -1,
 NETKIT_PASS = 0,
 NETKIT_DROP = 2,
 NETKIT_REDIRECT = 7,
};

enum netkit_mode {
 NETKIT_L2,
 NETKIT_L3,
};

enum {
 IFLA_NETKIT_UNSPEC,
 IFLA_NETKIT_PEER_INFO,
 IFLA_NETKIT_PRIMARY,
 IFLA_NETKIT_POLICY,
 IFLA_NETKIT_PEER_POLICY,
 IFLA_NETKIT_MODE,
 __IFLA_NETKIT_MAX,
};
#define IFLA_NETKIT_MAX (__IFLA_NETKIT_MAX - 1)

/* VXLAN section */

/* include statistics in the dump */
#define TUNNEL_MSG_FLAG_STATS 0x01

#define TUNNEL_MSG_VALID_USER_FLAGS
 TUNNEL_MSG_FLAG_STATS

/* Embedded inside VXLAN_VNIFILTER_ENTRY_STATS */
enum {
 VNIFILTER_ENTRY_STATS_UNSPEC,
 VNIFILTER_ENTRY_STATS_RX_BYTES,
 VNIFILTER_ENTRY_STATS_RX_PKTS,
 VNIFILTER_ENTRY_STATS_RX_DROPS,
 VNIFILTER_ENTRY_STATS_RX_ERRORS,
 VNIFILTER_ENTRY_STATS_TX_BYTES,
 VNIFILTER_ENTRY_STATS_TX_PKTS,
 VNIFILTER_ENTRY_STATS_TX_DROPS,
 VNIFILTER_ENTRY_STATS_TX_ERRORS,
 VNIFILTER_ENTRY_STATS_PAD,
 __VNIFILTER_ENTRY_STATS_MAX
};
```

```
#define VNIFILTER_ENTRY_STATS_MAX (__VNIFILTER_ENTRY_STATS_MAX - 1)

enum {
 VXLAN_VNIFILTER_ENTRY_UNSPEC,
 VXLAN_VNIFILTER_ENTRY_START,
 VXLAN_VNIFILTER_ENTRY_END,
 VXLAN_VNIFILTER_ENTRY_GROUP,
 VXLAN_VNIFILTER_ENTRY_GROUP6,
 VXLAN_VNIFILTER_ENTRY_STATS,
 __VXLAN_VNIFILTER_ENTRY_MAX
};
#define VXLAN_VNIFILTER_ENTRY_MAX (__VXLAN_VNIFILTER_ENTRY_MAX - 1)

enum {
 VXLAN_VNIFILTER_UNSPEC,
 VXLAN_VNIFILTER_ENTRY,
 __VXLAN_VNIFILTER_MAX
};
#define VXLAN_VNIFILTER_MAX (__VXLAN_VNIFILTER_MAX - 1)

enum {
 IFLA_VXLAN_UNSPEC,
 IFLA_VXLAN_ID,
 IFLA_VXLAN_GROUP, /*
 group or remote address */
 IFLA_VXLAN_LINK,
 IFLA_VXLAN_LOCAL,
 IFLA_VXLAN_TTL,
 IFLA_VXLAN_TOS,
 IFLA_VXLAN_LEARNING,
 IFLA_VXLAN_AGEING,
 IFLA_VXLAN_LIMIT,
 IFLA_VXLAN_PORT_RANGE, /* source port */
 IFLA_VXLAN_PROXY,
 IFLA_VXLAN_RSC,
 IFLA_VXLAN_L2MISS,
 IFLA_VXLAN_L3MISS,
 IFLA_VXLAN_PORT, /* destination port */
 IFLA_VXLAN_GROUP6,
 IFLA_VXLAN_LOCAL6,
 IFLA_VXLAN_UDP_CSUM,
 IFLA_VXLAN_UDP_ZERO_CSUM6_TX,
 IFLA_VXLAN_UDP_ZERO_CSUM6_RX,
 IFLA_VXLAN_REMCSUM_TX,
 IFLA_VXLAN_REMCSUM_RX,
 IFLA_VXLAN_GBP,
 IFLA_VXLAN_REMCSUM_NOPARTIAL,
 IFLA_VXLAN_COLLECT_METADATA,
```

```
 IFLA_VXLAN_LABEL,
 IFLA_VXLAN_GPE,
 IFLA_VXLAN_TTL_INHERIT,
 IFLA_VXLAN_DF,
 IFLA_VXLAN_VNIFILTER, /* only applicable with COLLECT_METADATA mode */
 IFLA_VXLAN_LOCALBYPASS,
 __IFLA_VXLAN_MAX
};
#define IFLA_VXLAN_MAX (__IFLA_VXLAN_MAX - 1)

struct ifla_vxlan_port_range {
 __be16 low;
 __be16 high;
};

enum ifla_vxlan_df {
 VXLAN_DF_UNSET = 0,
 VXLAN_DF_SET,
 VXLAN_DF_INHERIT,
 __VXLAN_DF_END,
 VXLAN_DF_MAX = __VXLAN_DF_END
 - 1,
};

/* GENEVE section */
enum {
 IFLA_GENEVE_UNSPEC,
 IFLA_GENEVE_ID,
 IFLA_GENEVE_REMOTE,
 IFLA_GENEVE_TTL,
 IFLA_GENEVE_TOS,
 IFLA_GENEVE_PORT, /* destination port */
 IFLA_GENEVE_COLLECT_METADATA,
 IFLA_GENEVE_REMOTE6,
 IFLA_GENEVE_UDP_CSUM,
 IFLA_GENEVE_UDP_ZERO_CSUM6_TX,
 IFLA_GENEVE_UDP_ZERO_CSUM6_RX,
 IFLA_GENEVE_LABEL,
 IFLA_GENEVE_TTL_INHERIT,
 IFLA_GENEVE_DF,
 IFLA_GENEVE_INNER_PROTO_INHERIT,
 __IFLA_GENEVE_MAX
};
#define IFLA_GENEVE_MAX (__IFLA_GENEVE_MAX - 1)

enum ifla_geneve_df {
 GENEVE_DF_UNSET = 0,
 GENEVE_DF_SET,
```

```
 GENEVE_DF_INHERIT,
 __GENEVE_DF_END,
 GENEVE_DF_MAX = __GENEVE_DF_END - 1,
};

/* Bareudp section  */
enum {
 IFLA_BAREUDP_UNSPEC,
 IFLA_BAREUDP_PORT,
 IFLA_BAREUDP_ETHERTYPE,
 IFLA_BAREUDP_SRCPORT_MIN,
 IFLA_BAREUDP_MULTIPROTO_MODE,
 __IFLA_BAREUDP_MAX
};

#define IFLA_BAREUDP_MAX (__IFLA_BAREUDP_MAX - 1)

/* PPP section */
enum {
 IFLA_PPP_UNSPEC,
 IFLA_PPP_DEV_FD,
 __IFLA_PPP_MAX
};
#define IFLA_PPP_MAX (__IFLA_PPP_MAX - 1)

/* GTP section
 */

enum ifla_gtp_role {
 GTP_ROLE_GGSN = 0,
 GTP_ROLE_SGSN,
};

enum {
 IFLA_GTP_UNSPEC,
 IFLA_GTP_FD0,
 IFLA_GTP_FD1,
 IFLA_GTP_PDP_HASHSIZE,
 IFLA_GTP_ROLE,
 IFLA_GTP_CREATE_SOCKETS,
 IFLA_GTP_RESTART_COUNT,
 __IFLA_GTP_MAX,
};
#define IFLA_GTP_MAX (__IFLA_GTP_MAX - 1)

/* Bonding section */

enum {
```

```
 IFLA_BOND_UNSPEC,
 IFLA_BOND_MODE,
 IFLA_BOND_ACTIVE_SLAVE,
 IFLA_BOND_MIIMON,
 IFLA_BOND_UPDELAY,
 IFLA_BOND_DOWNDELAY,
 IFLA_BOND_USE_CARRIER,
 IFLA_BOND_ARP_INTERVAL,
 IFLA_BOND_ARP_IP_TARGET,
 IFLA_BOND_ARP_VALIDATE,
 IFLA_BOND_ARP_ALL_TARGETS,
 IFLA_BOND_PRIMARY,
 IFLA_BOND_PRIMARY_RESELECT,
 IFLA_BOND_FAIL_OVER_MAC,
 IFLA_BOND_XMIT_HASH_POLICY,
 IFLA_BOND_RESEND_IGMP,
 IFLA_BOND_NUM_PEER_NOTIF,
 IFLA_BOND_ALL_SLAVES_ACTIVE,
 IFLA_BOND_MIN_LINKS,
 IFLA_BOND_LP_INTERVAL,
 IFLA_BOND_PACKETS_PER_SLAVE,
 IFLA_BOND_AD_LACP_RATE,
 IFLA_BOND_AD_SELECT,
 IFLA_BOND_AD_INFO,
 IFLA_BOND_AD_ACTOR_SYS_PRIO,
 IFLA_BOND_AD_USER_PORT_KEY,
 IFLA_BOND_AD_ACTOR_SYSTEM,
 IFLA_BOND_TLB_DYNAMIC_LB,
 IFLA_BOND_PEER_NOTIF_DELAY,
 IFLA_BOND_AD_LACP_ACTIVE,
 IFLA_BOND_MISSED_MAX,
 IFLA_BOND_NS_IP6_TARGET,
 IFLA_BOND_COUPLED_CONTROL,
 __IFLA_BOND_MAX,
};

#define
 IFLA_BOND_MAX (__IFLA_BOND_MAX - 1)

enum {
 IFLA_BOND_AD_INFO_UNSPEC,
 IFLA_BOND_AD_INFO_AGGREGATOR,
 IFLA_BOND_AD_INFO_NUM_PORTS,
 IFLA_BOND_AD_INFO_ACTOR_KEY,
 IFLA_BOND_AD_INFO_PARTNER_KEY,
 IFLA_BOND_AD_INFO_PARTNER_MAC,
 __IFLA_BOND_AD_INFO_MAX,
};
```

```
#define IFLA_BOND_AD_INFO_MAX (__IFLA_BOND_AD_INFO_MAX - 1)

enum {
 IFLA_BOND_SLAVE_UNSPEC,
 IFLA_BOND_SLAVE_STATE,
 IFLA_BOND_SLAVE_MII_STATUS,
 IFLA_BOND_SLAVE_LINK_FAILURE_COUNT,
 IFLA_BOND_SLAVE_PERM_HWADDR,
 IFLA_BOND_SLAVE_QUEUE_ID,
 IFLA_BOND_SLAVE_AD_AGGREGATOR_ID,
 IFLA_BOND_SLAVE_AD_ACTOR_OPER_PORT_STATE,
 IFLA_BOND_SLAVE_AD_PARTNER_OPER_PORT_STATE,
 IFLA_BOND_SLAVE_PRIO,
 __IFLA_BOND_SLAVE_MAX,
};

#define IFLA_BOND_SLAVE_MAX (__IFLA_BOND_SLAVE_MAX - 1)

/* SR-IOV virtual function management section */

enum {
 IFLA_VF_INFO_UNSPEC,
 IFLA_VF_INFO,
 __IFLA_VF_INFO_MAX,
};

#define
 IFLA_VF_INFO_MAX (__IFLA_VF_INFO_MAX - 1)

enum {
 IFLA_VF_UNSPEC,
 IFLA_VF_MAC,  /* Hardware queue specific attributes */
 IFLA_VF_VLAN,  /* VLAN ID and QoS */
 IFLA_VF_TX_RATE, /* Max TX Bandwidth Allocation */
 IFLA_VF_SPOOFCHK, /* Spoof Checking on/off switch */
 IFLA_VF_LINK_STATE, /* link state enable/disable/auto switch */
 IFLA_VF_RATE,  /* Min and Max TX Bandwidth Allocation */
 IFLA_VF_RSS_QUERY_EN, /* RSS Redirection Table and Hash Key query
    * on/off switch
    */
 IFLA_VF_STATS,  /* network device statistics */
 IFLA_VF_TRUST,  /* Trust VF */
 IFLA_VF_IB_NODE_GUID, /* VF Infiniband node GUID */
 IFLA_VF_IB_PORT_GUID, /* VF Infiniband port GUID */
 IFLA_VF_VLAN_LIST, /* nested list of vlans, option for QinQ */
 IFLA_VF_BROADCAST, /* VF broadcast */
 __IFLA_VF_MAX,
```

```
};

#define IFLA_VF_MAX (__IFLA_VF_MAX - 1)

struct ifla_vf_mac {
 __u32 vf;
 __u8 mac[32]; /* MAX_ADDR_LEN */
};

struct ifla_vf_broadcast {
 __u8 broadcast[32];
};

struct ifla_vf_vlan {
 __u32
 vf;
 __u32 vlan; /* 0 - 4095, 0 disables VLAN filter */
 __u32 qos;
};

enum {
 IFLA_VF_VLAN_INFO_UNSPEC,
 IFLA_VF_VLAN_INFO, /* VLAN ID, QoS and VLAN protocol */
 __IFLA_VF_VLAN_INFO_MAX,
};

#define IFLA_VF_VLAN_INFO_MAX (__IFLA_VF_VLAN_INFO_MAX - 1)
#define MAX_VLAN_LIST_LEN 1

struct ifla_vf_vlan_info {
 __u32 vf;
 __u32 vlan; /* 0 - 4095, 0 disables VLAN filter */
 __u32 qos;
 __be16 vlan_proto; /* VLAN protocol either 802.1Q or 802.1ad */
};

struct ifla_vf_tx_rate {
 __u32 vf;
 __u32 rate; /* Max TX bandwidth in Mbps, 0 disables throttling */
};

struct ifla_vf_rate {
 __u32 vf;
 __u32 min_tx_rate; /* Min Bandwidth in Mbps */
 __u32 max_tx_rate; /* Max Bandwidth in Mbps */
};

struct ifla_vf_spoofchk {
```

```
 __u32 vf;
 __u32 setting;
};

struct ifla_vf_guid {
 __u32 vf;
 __u64 guid;
};

enum {
 IFLA_VF_LINK_STATE_AUTO, /* link state of the uplink */
 IFLA_VF_LINK_STATE_ENABLE, /* link always up */
 IFLA_VF_LINK_STATE_DISABLE, /* link always down */
 __IFLA_VF_LINK_STATE_MAX,
};

struct
 ifla_vf_link_state {
 __u32 vf;
 __u32 link_state;
};

struct ifla_vf_rss_query_en {
 __u32 vf;
 __u32 setting;
};

enum {
 IFLA_VF_STATS_RX_PACKETS,
 IFLA_VF_STATS_TX_PACKETS,
 IFLA_VF_STATS_RX_BYTES,
 IFLA_VF_STATS_TX_BYTES,
 IFLA_VF_STATS_BROADCAST,
 IFLA_VF_STATS_MULTICAST,
 IFLA_VF_STATS_PAD,
 IFLA_VF_STATS_RX_DROPPED,
 IFLA_VF_STATS_TX_DROPPED,
 __IFLA_VF_STATS_MAX,
};

#define IFLA_VF_STATS_MAX (__IFLA_VF_STATS_MAX - 1)

struct ifla_vf_trust {
 __u32 vf;
 __u32 setting;
};

/* VF ports management section
```

```
*
* Nested layout of set/get msg is:
*
*  [IFLA_NUM_VF]
*  [IFLA_VF_PORTS]
*   [IFLA_VF_PORT]
*    [IFLA_PORT_*], ...
*   [IFLA_VF_PORT]
*    [IFLA_PORT_*], ...
*   ...
*  [IFLA_PORT_SELF]
*   [IFLA_PORT_*], ...
*/

enum {
 IFLA_VF_PORT_UNSPEC,
 IFLA_VF_PORT,   /* nest */
 __IFLA_VF_PORT_MAX,
};

#define IFLA_VF_PORT_MAX (__IFLA_VF_PORT_MAX - 1)

enum {
 IFLA_PORT_UNSPEC,
 IFLA_PORT_VF,   /* __u32 */
 IFLA_PORT_PROFILE,  /* string */
 IFLA_PORT_VSI_TYPE,  /* 802.1Qbg
 (pre-)standard VDP */
 IFLA_PORT_INSTANCE_UUID, /* binary UUID */
 IFLA_PORT_HOST_UUID,  /* binary UUID */
 IFLA_PORT_REQUEST,  /* __u8 */
 IFLA_PORT_RESPONSE,  /* __u16, output only */
 __IFLA_PORT_MAX,
};

#define IFLA_PORT_MAX (__IFLA_PORT_MAX - 1)

#define PORT_PROFILE_MAX 40
#define PORT_UUID_MAX  16
#define PORT_SELF_VF  -1

enum {
 PORT_REQUEST_PREASSOCIATE = 0,
 PORT_REQUEST_PREASSOCIATE_RR,
 PORT_REQUEST_ASSOCIATE,
 PORT_REQUEST_DISASSOCIATE,
};
```

```
enum {
 PORT_VDP_RESPONSE_SUCCESS = 0,
 PORT_VDP_RESPONSE_INVALID_FORMAT,
 PORT_VDP_RESPONSE_INSUFFICIENT_RESOURCES,
 PORT_VDP_RESPONSE_UNUSED_VTID,
 PORT_VDP_RESPONSE_VTID_VIOLATION,
 PORT_VDP_RESPONSE_VTID_VERSION_VIOALTION,
 PORT_VDP_RESPONSE_OUT_OF_SYNC,
 /* 0x08-0xFF reserved for future VDP use */
 PORT_PROFILE_RESPONSE_SUCCESS = 0x100,
 PORT_PROFILE_RESPONSE_INPROGRESS,
 PORT_PROFILE_RESPONSE_INVALID,
 PORT_PROFILE_RESPONSE_BADSTATE,
 PORT_PROFILE_RESPONSE_INSUFFICIENT_RESOURCES,
 PORT_PROFILE_RESPONSE_ERROR,
};

struct
 ifla_port_vsi {
 __u8 vsi_mgr_id;
 __u8 vsi_type_id[3];
 __u8 vsi_type_version;
 __u8 pad[3];
};


/* IPoIB section */

enum {
 IFLA_IPOIB_UNSPEC,
 IFLA_IPOIB_PKEY,
 IFLA_IPOIB_MODE,
 IFLA_IPOIB_UMCAST,
 __IFLA_IPOIB_MAX
};

enum {
 IPOIB_MODE_DATAGRAM  = 0, /* using unreliable datagram QPs */
 IPOIB_MODE_CONNECTED = 1, /* using connected QPs */
};

#define IFLA_IPOIB_MAX (__IFLA_IPOIB_MAX - 1)


/* HSR/PRP section, both uses same interface */

/* Different redundancy protocols for hsr device */
enum {
```

```
 HSR_PROTOCOL_HSR,
 HSR_PROTOCOL_PRP,
 HSR_PROTOCOL_MAX,
};

enum {
 IFLA_HSR_UNSPEC,
 IFLA_HSR_SLAVE1,
 IFLA_HSR_SLAVE2,
 IFLA_HSR_MULTICAST_SPEC, /* Last byte of supervision addr */
 IFLA_HSR_SUPERVISION_ADDR, /* Supervision frame multicast addr */
 IFLA_HSR_SEQ_NR,
 IFLA_HSR_VERSION,  /* HSR version */
 IFLA_HSR_PROTOCOL,  /* Indicate different protocol than
     * HSR. For example PRP.
     */
 __IFLA_HSR_MAX,
};

#define IFLA_HSR_MAX (__IFLA_HSR_MAX - 1)

/* STATS section */

struct
 if_stats_msg {
 __u8  family;
 __u8  pad1;
 __u16 pad2;
 __u32 ifindex;
 __u32 filter_mask;
};

/* A stats attribute can be netdev specific or a global stat.
* For netdev stats, lets use the prefix IFLA_STATS_LINK_*
*/
enum {
 IFLA_STATS_UNSPEC, /* also used as 64bit pad attribute */
 IFLA_STATS_LINK_64,
 IFLA_STATS_LINK_XSTATS,
 IFLA_STATS_LINK_XSTATS_SLAVE,
 IFLA_STATS_LINK_OFFLOAD_XSTATS,
 IFLA_STATS_AF_SPEC,
 __IFLA_STATS_MAX,
};

#define IFLA_STATS_MAX (__IFLA_STATS_MAX - 1)

#define IFLA_STATS_FILTER_BIT(ATTR) (1 << (ATTR - 1))
```

```
enum {
 IFLA_STATS_GETSET_UNSPEC,
 IFLA_STATS_GET_FILTERS, /* Nest of IFLA_STATS_LINK_xxx, each a u32 with
    * a filter mask for the corresponding group.
    */
 IFLA_STATS_SET_OFFLOAD_XSTATS_L3_STATS, /* 0 or 1 as u8 */
 __IFLA_STATS_GETSET_MAX,
};

#define IFLA_STATS_GETSET_MAX (__IFLA_STATS_GETSET_MAX - 1)

/* These are embedded into IFLA_STATS_LINK_XSTATS:
* [IFLA_STATS_LINK_XSTATS]
* -> [LINK_XSTATS_TYPE_xxx]
*    -> [rtnl link type specific
 attributes]
*/
enum {
 LINK_XSTATS_TYPE_UNSPEC,
 LINK_XSTATS_TYPE_BRIDGE,
 LINK_XSTATS_TYPE_BOND,
 __LINK_XSTATS_TYPE_MAX
};
#define LINK_XSTATS_TYPE_MAX (__LINK_XSTATS_TYPE_MAX - 1)

/* These are stats embedded into IFLA_STATS_LINK_OFFLOAD_XSTATS */
enum {
 IFLA_OFFLOAD_XSTATS_UNSPEC,
 IFLA_OFFLOAD_XSTATS_CPU_HIT, /* struct rtnl_link_stats64 */
 IFLA_OFFLOAD_XSTATS_HW_S_INFO, /* HW stats info. A nest */
 IFLA_OFFLOAD_XSTATS_L3_STATS, /* struct rtnl_hw_stats64 */
 __IFLA_OFFLOAD_XSTATS_MAX
};
#define IFLA_OFFLOAD_XSTATS_MAX (__IFLA_OFFLOAD_XSTATS_MAX - 1)

enum {
 IFLA_OFFLOAD_XSTATS_HW_S_INFO_UNSPEC,
 IFLA_OFFLOAD_XSTATS_HW_S_INFO_REQUEST,  /* u8 */
 IFLA_OFFLOAD_XSTATS_HW_S_INFO_USED,  /* u8 */
 __IFLA_OFFLOAD_XSTATS_HW_S_INFO_MAX,
};
#define IFLA_OFFLOAD_XSTATS_HW_S_INFO_MAX \
 (__IFLA_OFFLOAD_XSTATS_HW_S_INFO_MAX - 1)

/* XDP section */

#define XDP_FLAGS_UPDATE_IF_NOEXIST (1U << 0)
```

```
#define XDP_FLAGS_SKB_MODE  (1U << 1)
#define XDP_FLAGS_DRV_MODE  (1U << 2)
#define XDP_FLAGS_HW_MODE  (1U
 << 3)
#define XDP_FLAGS_REPLACE  (1U << 4)
#define XDP_FLAGS_MODES   (XDP_FLAGS_SKB_MODE | \
     XDP_FLAGS_DRV_MODE | \
     XDP_FLAGS_HW_MODE)
#define XDP_FLAGS_MASK   (XDP_FLAGS_UPDATE_IF_NOEXIST | \
     XDP_FLAGS_MODES | XDP_FLAGS_REPLACE)

/* These are stored into IFLA_XDP_ATTACHED on dump. */
enum {
 XDP_ATTACHED_NONE = 0,
 XDP_ATTACHED_DRV,
 XDP_ATTACHED_SKB,
 XDP_ATTACHED_HW,
 XDP_ATTACHED_MULTI,
};

enum {
 IFLA_XDP_UNSPEC,
 IFLA_XDP_FD,
 IFLA_XDP_ATTACHED,
 IFLA_XDP_FLAGS,
 IFLA_XDP_PROG_ID,
 IFLA_XDP_DRV_PROG_ID,
 IFLA_XDP_SKB_PROG_ID,
 IFLA_XDP_HW_PROG_ID,
 IFLA_XDP_EXPECTED_FD,
 __IFLA_XDP_MAX,
};

#define IFLA_XDP_MAX (__IFLA_XDP_MAX - 1)

enum {
 IFLA_EVENT_NONE,
 IFLA_EVENT_REBOOT,  /* internal reset / reboot */
 IFLA_EVENT_FEATURES,  /* change in offload features */
 IFLA_EVENT_BONDING_FAILOVER, /* change in active slave */
 IFLA_EVENT_NOTIFY_PEERS, /* re-sent grat. arp/ndisc */
 IFLA_EVENT_IGMP_RESEND,  /* re-sent IGMP JOIN */
 IFLA_EVENT_BONDING_OPTIONS, /*
 change in bonding options */
};

/* tun section */
```

```
enum {
 IFLA_TUN_UNSPEC,
 IFLA_TUN_OWNER,
 IFLA_TUN_GROUP,
 IFLA_TUN_TYPE,
 IFLA_TUN_PI,
 IFLA_TUN_VNET_HDR,
 IFLA_TUN_PERSIST,
 IFLA_TUN_MULTI_QUEUE,
 IFLA_TUN_NUM_QUEUES,
 IFLA_TUN_NUM_DISABLED_QUEUES,
 __IFLA_TUN_MAX,
};

#define IFLA_TUN_MAX (__IFLA_TUN_MAX - 1)

/* rmnet section */

#define RMNET_FLAGS_INGRESS_DEAGGREGATION         (1U << 0)
#define RMNET_FLAGS_INGRESS_MAP_COMMANDS          (1U << 1)
#define RMNET_FLAGS_INGRESS_MAP_CKSUMV4           (1U << 2)
#define RMNET_FLAGS_EGRESS_MAP_CKSUMV4            (1U << 3)
#define RMNET_FLAGS_INGRESS_MAP_CKSUMV5           (1U << 4)
#define RMNET_FLAGS_EGRESS_MAP_CKSUMV5            (1U << 5)

enum {
 IFLA_RMNET_UNSPEC,
 IFLA_RMNET_MUX_ID,
 IFLA_RMNET_FLAGS,
 __IFLA_RMNET_MAX,
};

#define IFLA_RMNET_MAX (__IFLA_RMNET_MAX - 1)

struct ifla_rmnet_flags {
 __u32 flags;
 __u32 mask;
};

/* MCTP section */

enum {
 IFLA_MCTP_UNSPEC,
 IFLA_MCTP_NET,
 __IFLA_MCTP_MAX,
};

#define IFLA_MCTP_MAX
```

```
 (__IFLA_MCTP_MAX - 1)

/* DSA section */

enum {
 IFLA_DSA_UNSPEC,
 IFLA_DSA_MASTER,
 __IFLA_DSA_MAX,
};

#define IFLA_DSA_MAX (__IFLA_DSA_MAX - 1)

#endif /* _UAPI_LINUX_IF_LINK_H */
// Project Calico BPF dataplane programs.
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#ifndef __CALI_BPF_FAILSAFE_H__
#define __CALI_BPF_FAILSAFE_H__

#include "bpf.h"
#include "types.h"

struct failsafe_key {
 __u32 prefixlen;
 __u16 port;
 __u8 ip_proto;
 __u8 flags;
 ipv46_addr_t addr;
};

struct failsafe_val {
 __u32 unused;
};

#ifdef IPVER6
CALI_MAP_NAMED(cali_v6_fsafes, cali_fsafes, 2,
#else
CALI_MAP_NAMED(cali_v4_fsafes, cali_fsafes, 2,
#endif
  BPF_MAP_TYPE_LPM_TRIE,
  struct failsafe_key, struct failsafe_val,
  65536,
  BPF_F_NO_PREALLOC)

#define CALI_FSAFE_OUT 1
```

```
/* Prefix len = (port + protocol + addr) in bits. */
#define FSAFE_PREFIX_LEN  (sizeof(struct failsafe_key) - \
    sizeof(((struct failsafe_key*)0)->prefixlen))

#define FSAFE_PREFIX_LEN_IN_BITS (FSAFE_PREFIX_LEN * 8)

static CALI_BPF_INLINE bool is_failsafe_in(__u8 ip_proto, __u16 dport, ipv46_addr_t ip) {
 struct failsafe_key key = {
  .prefixlen
 = FSAFE_PREFIX_LEN_IN_BITS,
  .ip_proto = ip_proto,
  .port = dport,
  .flags = 0,
  .addr = ip,
 };
 if (cali_fsafes_lookup_elem(&key)) {
  return true;
 }
 return false;
}

static CALI_BPF_INLINE bool is_failsafe_out(__u8 ip_proto, __u16 dport, ipv46_addr_t ip) {
 struct failsafe_key key = {
  .prefixlen = FSAFE_PREFIX_LEN_IN_BITS,
  .ip_proto = ip_proto,
  .port = dport,
  .flags = CALI_FSAFE_OUT,
  .addr = ip,
 };
 if (cali_fsafes_lookup_elem(&key)) {
  return true;
 }
 return false;
}

#endif /* __CALI_BPF_FAILSAFE_H__ */
```

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 THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
SOFTWARE.

```
/* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */
#ifndef __LINUX_PKT_CLS_H
#define __LINUX_PKT_CLS_H

#include <linux/types.h>
#include <linux/pkt_sched.h>

#define TC_COOKIE_MAX_SIZE 16

/* Action attributes */
enum {
 TCA_ACT_UNSPEC,
 TCA_ACT_KIND,
 TCA_ACT_OPTIONS,
 TCA_ACT_INDEX,
 TCA_ACT_STATS,
 TCA_ACT_PAD,
 TCA_ACT_COOKIE,
 __TCA_ACT_MAX
};

#define TCA_ACT_MAX __TCA_ACT_MAX
#define TCA_OLD_COMPAT (TCA_ACT_MAX+1)
#define TCA_ACT_MAX_PRIO 32
#define TCA_ACT_BIND 1
#define TCA_ACT_NOBIND 0
#define TCA_ACT_UNBIND 1
#define TCA_ACT_NOUNBIND 0
#define TCA_ACT_REPLACE  1
#define TCA_ACT_NOREPLACE 0

#define TC_ACT_UNSPEC (-1)
#define TC_ACT_OK  0
#define TC_ACT_RECLASSIFY 1
#define TC_ACT_SHOT  2
#define TC_ACT_PIPE  3
#define TC_ACT_STOLEN  4
#define TC_ACT_QUEUED  5
#define TC_ACT_REPEAT  6
#define TC_ACT_REDIRECT  7
```

```
#define TC_ACT_TRAP  8 /* For hw path, this means "trap to cpu"
       * and don't further process the frame
       * in hardware. For sw path, this is

   * equivalent of TC_ACT_STOLEN - drop
       * the skb and act like everything
       * is alright.
       */
#define TC_ACT_VALUE_MAX TC_ACT_TRAP

/* There is a special kind of actions called "extended actions",
* which need a value parameter. These have a local opcode located in
* the highest nibble, starting from 1. The rest of the bits
* are used to carry the value. These two parts together make
* a combined opcode.
*/
#define __TC_ACT_EXT_SHIFT 28
#define __TC_ACT_EXT(local) ((local) << __TC_ACT_EXT_SHIFT)
#define TC_ACT_EXT_VAL_MASK ((1 << __TC_ACT_EXT_SHIFT) - 1)
#define TC_ACT_EXT_OPCODE(combined) ((combined) & (~TC_ACT_EXT_VAL_MASK))
#define TC_ACT_EXT_CMP(combined, opcode) (TC_ACT_EXT_OPCODE(combined) == opcode)

#define TC_ACT_JUMP __TC_ACT_EXT(1)
#define TC_ACT_GOTO_CHAIN __TC_ACT_EXT(2)
#define TC_ACT_EXT_OPCODE_MAX TC_ACT_GOTO_CHAIN

/* Action type identifiers*/
enum {
 TCA_ID_UNSPEC=0,
 TCA_ID_POLICE=1,
 /* other actions go here */
 __TCA_ID_MAX=255
};

#define TCA_ID_MAX
 __TCA_ID_MAX

struct tc_police {
 __u32   index;
 int   action;
#define TC_POLICE_UNSPEC TC_ACT_UNSPEC
#define TC_POLICE_OK  TC_ACT_OK
#define TC_POLICE_RECLASSIFY TC_ACT_RECLASSIFY
#define TC_POLICE_SHOT  TC_ACT_SHOT
#define TC_POLICE_PIPE  TC_ACT_PIPE

 __u32   limit;
 __u32   burst;
```

```
 __u32   mtu;
 struct tc_ratespec rate;
 struct tc_ratespec peakrate;
 int   refcnt;
 int   bindcnt;
 __u32   capab;
};

struct tcf_t {
 __u64   install;
 __u64   lastuse;
 __u64   expires;
 __u64   firstuse;
};

struct tc_cnt {
 int                refcnt;
 int                bindcnt;
};

#define tc_gen \
 __u32                index; \
 __u32                capab; \
 int                action; \
 int                refcnt; \
 int                bindcnt

enum {
 TCA_POLICE_UNSPEC,
 TCA_POLICE_TBF,
 TCA_POLICE_RATE,
 TCA_POLICE_PEAKRATE,
 TCA_POLICE_AVRATE,
 TCA_POLICE_RESULT,
 TCA_POLICE_TM,
 TCA_POLICE_PAD,
 __TCA_POLICE_MAX
#define TCA_POLICE_RESULT TCA_POLICE_RESULT
};

#define
 TCA_POLICE_MAX (__TCA_POLICE_MAX - 1)

/* tca flags definitions */
#define TCA_CLS_FLAGS_SKIP_HW (1 << 0) /* don't offload filter to HW */
#define TCA_CLS_FLAGS_SKIP_SW (1 << 1) /* don't use filter in SW */
#define TCA_CLS_FLAGS_IN_HW (1 << 2) /* filter is offloaded to HW */
#define TCA_CLS_FLAGS_NOT_IN_HW (1 << 3) /* filter isn't offloaded to HW */
```

```
#define TCA_CLS_FLAGS_VERBOSE (1 << 4) /* verbose logging */

/* U32 filters */

#define TC_U32_HTID(h) ((h)&0xFFF00000)
#define TC_U32_USERHTID(h) (TC_U32_HTID(h)>>20)
#define TC_U32_HASH(h) (((h)>>12)&0xFF)
#define TC_U32_NODE(h) ((h)&0xFFF)
#define TC_U32_KEY(h) ((h)&0xFFFFF)
#define TC_U32_UNSPEC 0
#define TC_U32_ROOT (0xFFF00000)

enum {
 TCA_U32_UNSPEC,
 TCA_U32_CLASSID,
 TCA_U32_HASH,
 TCA_U32_LINK,
 TCA_U32_DIVISOR,
 TCA_U32_SEL,
 TCA_U32_POLICE,
 TCA_U32_ACT,
 TCA_U32_INDEV,
 TCA_U32_PCNT,
 TCA_U32_MARK,
 TCA_U32_FLAGS,
 TCA_U32_PAD,
 __TCA_U32_MAX
};

#define TCA_U32_MAX (__TCA_U32_MAX - 1)

struct tc_u32_key {
 __be32  mask;
 __be32  val;
 int  off;
 int  offmask;
};

struct
 tc_u32_sel {
 unsigned char  flags;
 unsigned char  offshift;
 unsigned char  nkeys;

 __be16   offmask;
 __u16   off;
 short   offoff;
```

```
 short   hoff;
 __be32   hmask;
 struct tc_u32_key keys[];
};

struct tc_u32_mark {
 __u32  val;
 __u32  mask;
 __u32  success;
};

struct tc_u32_pcnt {
 __u64 rcnt;
 __u64 rhit;
 __u64 kcnts[];
};

/* Flags */

#define TC_U32_TERMINAL  1
#define TC_U32_OFFSET  2
#define TC_U32_VAROFFSET 4
#define TC_U32_EAT  8

#define TC_U32_MAXDEPTH 8

/* ROUTE filter */

enum {
 TCA_ROUTE4_UNSPEC,
 TCA_ROUTE4_CLASSID,
 TCA_ROUTE4_TO,
 TCA_ROUTE4_FROM,
 TCA_ROUTE4_IIF,
 TCA_ROUTE4_POLICE,
 TCA_ROUTE4_ACT,
 __TCA_ROUTE4_MAX
};

#define TCA_ROUTE4_MAX (__TCA_ROUTE4_MAX - 1)


/* FW filter */

enum {
 TCA_FW_UNSPEC,
 TCA_FW_CLASSID,
 TCA_FW_POLICE,
```

```
 TCA_FW_INDEV,
 TCA_FW_ACT, /* used by CONFIG_NET_CLS_ACT */
 TCA_FW_MASK,
 __TCA_FW_MAX
};

#define TCA_FW_MAX (__TCA_FW_MAX - 1)

/* Flow filter */

enum {
 FLOW_KEY_SRC,
 FLOW_KEY_DST,
 FLOW_KEY_PROTO,
 FLOW_KEY_PROTO_SRC,
 FLOW_KEY_PROTO_DST,
 FLOW_KEY_IIF,
 FLOW_KEY_PRIORITY,
 FLOW_KEY_MARK,
 FLOW_KEY_NFCT,
 FLOW_KEY_NFCT_SRC,
 FLOW_KEY_NFCT_DST,
 FLOW_KEY_NFCT_PROTO_SRC,
 FLOW_KEY_NFCT_PROTO_DST,
 FLOW_KEY_RTCLASSID,
 FLOW_KEY_SKUID,
 FLOW_KEY_SKGID,
 FLOW_KEY_VLAN_TAG,
 FLOW_KEY_RXHASH,
 __FLOW_KEY_MAX,
};

#define
 FLOW_KEY_MAX (__FLOW_KEY_MAX - 1)

enum {
 FLOW_MODE_MAP,
 FLOW_MODE_HASH,
};

enum {
 TCA_FLOW_UNSPEC,
 TCA_FLOW_KEYS,
 TCA_FLOW_MODE,
 TCA_FLOW_BASECLASS,
 TCA_FLOW_RSHIFT,
 TCA_FLOW_ADDEND,
 TCA_FLOW_MASK,
```

```
 TCA_FLOW_XOR,
 TCA_FLOW_DIVISOR,
 TCA_FLOW_ACT,
 TCA_FLOW_POLICE,
 TCA_FLOW_EMATCHES,
 TCA_FLOW_PERTURB,
 __TCA_FLOW_MAX
};

#define TCA_FLOW_MAX (__TCA_FLOW_MAX - 1)

/* Basic filter */

enum {
 TCA_BASIC_UNSPEC,
 TCA_BASIC_CLASSID,
 TCA_BASIC_EMATCHES,
 TCA_BASIC_ACT,
 TCA_BASIC_POLICE,
 __TCA_BASIC_MAX
};

#define TCA_BASIC_MAX (__TCA_BASIC_MAX - 1)


/* Cgroup classifier */

enum {
 TCA_CGROUP_UNSPEC,
 TCA_CGROUP_ACT,
 TCA_CGROUP_POLICE,
 TCA_CGROUP_EMATCHES,
 __TCA_CGROUP_MAX,
};

#define
 TCA_CGROUP_MAX (__TCA_CGROUP_MAX - 1)

/* BPF classifier */

#define TCA_BPF_FLAG_ACT_DIRECT  (1 << 0)

enum {
 TCA_BPF_UNSPEC,
 TCA_BPF_ACT,
 TCA_BPF_POLICE,
 TCA_BPF_CLASSID,
 TCA_BPF_OPS_LEN,
```

```
 TCA_BPF_OPS,
 TCA_BPF_FD,
 TCA_BPF_NAME,
 TCA_BPF_FLAGS,
 TCA_BPF_FLAGS_GEN,
 TCA_BPF_TAG,
 TCA_BPF_ID,
 __TCA_BPF_MAX,
};

#define TCA_BPF_MAX (__TCA_BPF_MAX - 1)

/* Flower classifier */

enum {
 TCA_FLOWER_UNSPEC,
 TCA_FLOWER_CLASSID,
 TCA_FLOWER_INDEV,
 TCA_FLOWER_ACT,
 TCA_FLOWER_KEY_ETH_DST,  /* ETH_ALEN */
 TCA_FLOWER_KEY_ETH_DST_MASK, /* ETH_ALEN */
 TCA_FLOWER_KEY_ETH_SRC,  /* ETH_ALEN */
 TCA_FLOWER_KEY_ETH_SRC_MASK, /* ETH_ALEN */
 TCA_FLOWER_KEY_ETH_TYPE, /* be16 */
 TCA_FLOWER_KEY_IP_PROTO, /* u8 */
 TCA_FLOWER_KEY_IPV4_SRC, /* be32 */
 TCA_FLOWER_KEY_IPV4_SRC_MASK, /* be32 */
 TCA_FLOWER_KEY_IPV4_DST, /* be32 */
 TCA_FLOWER_KEY_IPV4_DST_MASK, /* be32 */
 TCA_FLOWER_KEY_IPV6_SRC, /* struct in6_addr */
 TCA_FLOWER_KEY_IPV6_SRC_MASK, /*
 struct in6_addr */
 TCA_FLOWER_KEY_IPV6_DST, /* struct in6_addr */
 TCA_FLOWER_KEY_IPV6_DST_MASK, /* struct in6_addr */
 TCA_FLOWER_KEY_TCP_SRC,  /* be16 */
 TCA_FLOWER_KEY_TCP_DST,  /* be16 */
 TCA_FLOWER_KEY_UDP_SRC,  /* be16 */
 TCA_FLOWER_KEY_UDP_DST,  /* be16 */

 TCA_FLOWER_FLAGS,
 TCA_FLOWER_KEY_VLAN_ID,  /* be16 */
 TCA_FLOWER_KEY_VLAN_PRIO, /* u8   */
 TCA_FLOWER_KEY_VLAN_ETH_TYPE, /* be16 */

 TCA_FLOWER_KEY_ENC_KEY_ID, /* be32 */
 TCA_FLOWER_KEY_ENC_IPV4_SRC, /* be32 */
 TCA_FLOWER_KEY_ENC_IPV4_SRC_MASK,/* be32 */
 TCA_FLOWER_KEY_ENC_IPV4_DST, /* be32 */
```

```
TCA_FLOWER_KEY_ENC_IPV4_DST_MASK,/* be32 */
TCA_FLOWER_KEY_ENC_IPV6_SRC, /* struct in6_addr */
TCA_FLOWER_KEY_ENC_IPV6_SRC_MASK,/* struct in6_addr */
TCA_FLOWER_KEY_ENC_IPV6_DST, /* struct in6_addr */
TCA_FLOWER_KEY_ENC_IPV6_DST_MASK,/* struct in6_addr */

TCA_FLOWER_KEY_TCP_SRC_MASK, /* be16 */
TCA_FLOWER_KEY_TCP_DST_MASK, /* be16 */
TCA_FLOWER_KEY_UDP_SRC_MASK, /* be16 */
TCA_FLOWER_KEY_UDP_DST_MASK, /*
be16 */
TCA_FLOWER_KEY_SCTP_SRC_MASK, /* be16 */
TCA_FLOWER_KEY_SCTP_DST_MASK, /* be16 */

TCA_FLOWER_KEY_SCTP_SRC, /* be16 */
TCA_FLOWER_KEY_SCTP_DST, /* be16 */

TCA_FLOWER_KEY_ENC_UDP_SRC_PORT, /* be16 */
TCA_FLOWER_KEY_ENC_UDP_SRC_PORT_MASK, /* be16 */
TCA_FLOWER_KEY_ENC_UDP_DST_PORT, /* be16 */
TCA_FLOWER_KEY_ENC_UDP_DST_PORT_MASK, /* be16 */

TCA_FLOWER_KEY_FLAGS,  /* be32 */
TCA_FLOWER_KEY_FLAGS_MASK, /* be32 */

TCA_FLOWER_KEY_ICMPV4_CODE, /* u8 */
TCA_FLOWER_KEY_ICMPV4_CODE_MASK,/* u8 */
TCA_FLOWER_KEY_ICMPV4_TYPE, /* u8 */
TCA_FLOWER_KEY_ICMPV4_TYPE_MASK,/* u8 */
TCA_FLOWER_KEY_ICMPV6_CODE, /* u8 */
TCA_FLOWER_KEY_ICMPV6_CODE_MASK,/* u8 */
TCA_FLOWER_KEY_ICMPV6_TYPE, /* u8 */
TCA_FLOWER_KEY_ICMPV6_TYPE_MASK,/* u8 */

TCA_FLOWER_KEY_ARP_SIP,  /* be32 */
TCA_FLOWER_KEY_ARP_SIP_MASK, /* be32 */
TCA_FLOWER_KEY_ARP_TIP,  /* be32 */
TCA_FLOWER_KEY_ARP_TIP_MASK, /* be32 */
TCA_FLOWER_KEY_ARP_OP,  /* u8 */
TCA_FLOWER_KEY_ARP_OP_MASK, /* u8 */
TCA_FLOWER_KEY_ARP_SHA,  /*
ETH_ALEN */
TCA_FLOWER_KEY_ARP_SHA_MASK, /* ETH_ALEN */
TCA_FLOWER_KEY_ARP_THA,  /* ETH_ALEN */
TCA_FLOWER_KEY_ARP_THA_MASK, /* ETH_ALEN */

TCA_FLOWER_KEY_MPLS_TTL, /* u8 - 8 bits */
TCA_FLOWER_KEY_MPLS_BOS, /* u8 - 1 bit */
```

```
 TCA_FLOWER_KEY_MPLS_TC,  /* u8 - 3 bits */
 TCA_FLOWER_KEY_MPLS_LABEL, /* be32 - 20 bits */

 TCA_FLOWER_KEY_TCP_FLAGS, /* be16 */
 TCA_FLOWER_KEY_TCP_FLAGS_MASK, /* be16 */

 TCA_FLOWER_KEY_IP_TOS,  /* u8 */
 TCA_FLOWER_KEY_IP_TOS_MASK, /* u8 */
 TCA_FLOWER_KEY_IP_TTL,  /* u8 */
 TCA_FLOWER_KEY_IP_TTL_MASK, /* u8 */

 TCA_FLOWER_KEY_CVLAN_ID, /* be16 */
 TCA_FLOWER_KEY_CVLAN_PRIO, /* u8   */
 TCA_FLOWER_KEY_CVLAN_ETH_TYPE, /* be16 */

 TCA_FLOWER_KEY_ENC_IP_TOS, /* u8 */
 TCA_FLOWER_KEY_ENC_IP_TOS_MASK, /* u8 */
 TCA_FLOWER_KEY_ENC_IP_TTL, /* u8 */
 TCA_FLOWER_KEY_ENC_IP_TTL_MASK, /* u8 */

 TCA_FLOWER_KEY_ENC_OPTS,
 TCA_FLOWER_KEY_ENC_OPTS_MASK,

 TCA_FLOWER_IN_HW_COUNT,

 __TCA_FLOWER_MAX,
};

#define TCA_FLOWER_MAX (__TCA_FLOWER_MAX -
 1)

enum {
 TCA_FLOWER_KEY_ENC_OPTS_UNSPEC,
 TCA_FLOWER_KEY_ENC_OPTS_GENEVE, /* Nested
     * TCA_FLOWER_KEY_ENC_OPT_GENEVE_
     * attributes
     */
 __TCA_FLOWER_KEY_ENC_OPTS_MAX,
};

#define TCA_FLOWER_KEY_ENC_OPTS_MAX (__TCA_FLOWER_KEY_ENC_OPTS_MAX - 1)

enum {
 TCA_FLOWER_KEY_ENC_OPT_GENEVE_UNSPEC,
 TCA_FLOWER_KEY_ENC_OPT_GENEVE_CLASS,          /* u16 */
 TCA_FLOWER_KEY_ENC_OPT_GENEVE_TYPE,           /* u8 */
 TCA_FLOWER_KEY_ENC_OPT_GENEVE_DATA,           /* 4 to 128 bytes */
```

```
 __TCA_FLOWER_KEY_ENC_OPT_GENEVE_MAX,
};

#define TCA_FLOWER_KEY_ENC_OPT_GENEVE_MAX \
  (__TCA_FLOWER_KEY_ENC_OPT_GENEVE_MAX - 1)

enum {
 TCA_FLOWER_KEY_FLAGS_IS_FRAGMENT = (1 << 0),
 TCA_FLOWER_KEY_FLAGS_FRAG_IS_FIRST = (1 << 1),
};

/* Match-all classifier */

enum {
 TCA_MATCHALL_UNSPEC,
 TCA_MATCHALL_CLASSID,
 TCA_MATCHALL_ACT,
 TCA_MATCHALL_FLAGS,
 __TCA_MATCHALL_MAX,
};

#define TCA_MATCHALL_MAX (__TCA_MATCHALL_MAX - 1)

/* Extended Matches */

struct tcf_ematch_tree_hdr {
 __u16  nmatches;
 __u16  progid;
};

enum
 {
 TCA_EMATCH_TREE_UNSPEC,
 TCA_EMATCH_TREE_HDR,
 TCA_EMATCH_TREE_LIST,
 __TCA_EMATCH_TREE_MAX
};
#define TCA_EMATCH_TREE_MAX (__TCA_EMATCH_TREE_MAX - 1)

struct tcf_ematch_hdr {
 __u16  matchid;
 __u16  kind;
 __u16  flags;
 __u16  pad; /* currently unused */
};

/*  0                   1
*  0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5
```

```
* +-----------------------+-+-+---+
* |        Unused        |S|I| R |
* +-----------------------+-+-+---+
*
* R(2) ::= relation to next ematch
*         where: 0 0 END (last ematch)
*                0 1 AND
*                1 0 OR
*                1 1 Unused (invalid)
* I(1) ::= invert result
* S(1) ::= simple payload
*/
#define TCF_EM_REL_END 0
#define TCF_EM_REL_AND (1<<0)
#define TCF_EM_REL_OR (1<<1)
#define TCF_EM_INVERT (1<<2)
#define TCF_EM_SIMPLE (1<<3)

#define TCF_EM_REL_MASK 3
#define TCF_EM_REL_VALID(v) (((v) & TCF_EM_REL_MASK) != TCF_EM_REL_MASK)

enum {
 TCF_LAYER_LINK,
 TCF_LAYER_NETWORK,
 TCF_LAYER_TRANSPORT,
 __TCF_LAYER_MAX
};
#define
 TCF_LAYER_MAX (__TCF_LAYER_MAX - 1)

/* Ematch type assignments
*   1..32767  Reserved for ematches inside kernel tree
*   32768..65535 Free to use, not reliable
*/
#define TCF_EM_CONTAINER 0
#define TCF_EM_CMP  1
#define TCF_EM_NBYTE  2
#define TCF_EM_U32  3
#define TCF_EM_META  4
#define TCF_EM_TEXT  5
#define TCF_EM_VLAN  6
#define TCF_EM_CANID  7
#define TCF_EM_IPSET  8
#define TCF_EM_IPT  9
#define TCF_EM_MAX  9

enum {
 TCF_EM_PROG_TC
```

```
};

enum {
 TCF_EM_OPND_EQ,
 TCF_EM_OPND_GT,
 TCF_EM_OPND_LT
};

#endif
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

#ifndef __LIBBPF_ZIP_H
#define __LIBBPF_ZIP_H

#include <linux/types.h>

/* Represents an open zip archive.
* Only basic ZIP files are supported, in particular the following are not
* supported:
* - encryption
* - streaming
* - multi-part ZIP files
* - ZIP64
*/
struct zip_archive;

/* Carries information on name, compression method, and data corresponding to a
* file in a zip archive.
*/
struct zip_entry {
 /* Compression method as defined in pkzip spec. 0 means data is uncompressed. */
 __u16 compression;

 /* Non-null terminated name of the file. */
 const char *name;
 /* Length of the file name. */
 __u16 name_length;

 /* Pointer to the file data. */
 const void *data;
 /* Length of the file data. */
 __u32 data_length;
 /* Offset of the file data within the archive. */
 __u32 data_offset;
};

/* Open a zip archive. Returns NULL in case of an error. */
struct zip_archive *zip_archive_open(const char *path);
```

```
/* Close
 a zip archive and release resources. */
void zip_archive_close(struct zip_archive *archive);

/* Look up an entry corresponding to a file in given zip archive. */
int zip_archive_find_entry(struct zip_archive *archive, const char *name, struct zip_entry *out);

#endif
// Project Calico BPF dataplane programs.
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#ifndef __CALI_PARSING6_H__
#define __CALI_PARSING6_H__

#include "bpf.h"

static CALI_BPF_INLINE int parse_packet_ip_v6(struct cali_tc_ctx *ctx) {
 __u16 protocol = 0;

 /* We need to make a decision based on Ethernet protocol, however,
  * the protocol number is not available to XDP programs like TC ones.
  * In TC programs protocol number is available via skb->protocol.
  * For that, in XDP programs we need to parse at least up to Ethernet
  * first, before making any decision. But in TC programs we can make
  * an initial decision based on Ethernet protocol before parsing packet
  * for more headers.
  */
#if CALI_F_XDP
 if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("Too short\n");
  goto deny;
 }
 protocol = bpf_ntohs(eth_hdr(ctx)->h_proto);
#else
 protocol = bpf_ntohs(ctx->skb->protocol);
#endif

 switch
 (protocol) {
 case ETH_P_IPV6:
  break;
      case ETH_P_ARP:
            CALI_DEBUG("ARP: allowing packet\n");
            goto allow_no_fib;
 case ETH_P_IP:
```

```
 if (CALI_F_HEP) {
  CALI_DEBUG("IPv4 on host interface: allow\n");
  goto allow_no_fib;
 }
 CALI_DEBUG("Unexpected ipv4 packet, drop\n");
 goto deny;
default:
 if (CALI_F_WEP) {
  CALI_DEBUG("Unknown ethertype (%x), drop\n", protocol);
  goto deny;
 } else {
  CALI_DEBUG("Unknown ethertype on host interface (%x), allow\n",
       protocol);
  goto allow_no_fib;
 }
}

// In TC programs, parse packet and validate its size. This is
// already done for XDP programs at the beginning of the function.
if (!CALI_F_XDP) {
 if (skb_refresh_validate_ptrs(ctx, UDP_SIZE)) {
  deny_reason(ctx, CALI_REASON_SHORT);
  CALI_DEBUG("Too short\n");
  goto deny;
 }
}

return PARSING_OK_V6;

allow_no_fib:
return PARSING_ALLOW_WITHOUT_ENFORCING_POLICY;

deny:
return PARSING_ERROR;
}

static
CALI_BPF_INLINE bool ipv6_hexthdr_is_opt(int nexthdr)
{
switch(nexthdr) {
case NEXTHDR_HOP:
case NEXTHDR_ROUTING:
case NEXTHDR_FRAGMENT:
case NEXTHDR_GRE:
case NEXTHDR_ESP:
case NEXTHDR_AUTH:
case NEXTHDR_NONE:
case NEXTHDR_DEST:
```

```
 case NEXTHDR_MOBILITY:
  return true;
 }

 return false;
}

static CALI_BPF_INLINE void tc_state_fill_from_iphdr_v6_offset(struct cali_tc_ctx *ctx, int ipoff)
{
 // Fill in source ip
 ipv6hdr_ip_to_ipv6_addr_t(&ctx->state->ip_src, &ip_hdr(ctx)->saddr);
 // Fill in dst ip
 ipv6hdr_ip_to_ipv6_addr_t(&ctx->state->ip_dst, &ip_hdr(ctx)->daddr);
 // Fill in pre nat ip
 ctx->state->pre_nat_ip_dst = ctx->state->ip_dst;
 // Fill in other information
 ctx->state->ip_size = ip_hdr(ctx)->payload_len;

 int hdr;

 switch (ip_hdr(ctx)->nexthdr) {
 case IPPROTO_TCP:
 case IPPROTO_UDP:
 case IPPROTO_ICMPV6:
  ctx->ipheader_len = ctx->state->ihl = IP_SIZE;
  ctx->state->ip_proto = ip_hdr(ctx)->nexthdr;
  goto out;
 case NEXTHDR_NONE:
  goto deny;
 default:
  hdr
 = ip_hdr(ctx)->nexthdr;
 }

 CALI_DEBUG("ip->nexthdr %d IPv6 options!\n", ip_hdr(ctx)->nexthdr);

 int i;
 int len = IP_SIZE;

 for (i = 0; i < 8; i++) {
  struct ipv6_opt_hdr opt;

  CALI_DEBUG("loading extension at offset %d\n", ipoff + len);
  if (bpf_load_bytes(ctx, ipoff + len, &opt, sizeof(opt))) {
   CALI_DEBUG("Too short\n");
   goto deny;
  }
```

```
  CALI_DEBUG("ext nexthdr %d hdrlen %d\n", opt.nexthdr, opt.hdrlen);

  switch(hdr) {
  case NEXTHDR_FRAGMENT:
   len += 16;
   break;
  case NEXTHDR_HOP:
  case NEXTHDR_ROUTING:
  case NEXTHDR_DEST:
  case NEXTHDR_GRE:
  case NEXTHDR_ESP:
  case NEXTHDR_AUTH:
  case NEXTHDR_MOBILITY:
   len += (opt.hdrlen + 1) * 8;
   break;
  }

  switch(opt.nexthdr) {
   case IPPROTO_TCP:
   case IPPROTO_UDP:
   case IPPROTO_ICMPV6:
    ctx->ipheader_len = ctx->state->ihl = len;
    ctx->state->ip_proto = opt.nexthdr;
    goto out;
   case NEXTHDR_NONE:
    goto deny;
  }


 }

out:
 CALI_DEBUG("IP ihl=%d bytes ip nexthdr %d\n", ctx->ipheader_len,
 ctx->state->ip_proto);
 return;

deny:
 if (CALI_F_XDP) {
  bpf_exit(XDP_DROP);
 } else {
  bpf_exit(TC_ACT_SHOT);
 }
}

static CALI_BPF_INLINE void tc_state_fill_from_iphdr_v6(struct cali_tc_ctx *ctx) {
 tc_state_fill_from_iphdr_v6_offset(ctx, skb_iphdr_offset(ctx));
}
```

```
#endif /* __CALI_PARSING6_H__ */
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#ifndef __CALI_NAT_LOOKUP_H__
#define __CALI_NAT_LOOKUP_H__

#include <stddef.h>

#include <linux/if_ether.h>
#include <linux/udp.h>

#include "bpf.h"
#include "routes.h"
#include "nat_types.h"

static CALI_BPF_INLINE struct calico_nat_dest* calico_nat_lookup(ipv46_addr_t *ip_src,
        ipv46_addr_t *ip_dst,
        __u8 ip_proto,
        __u16 dport,
        bool from_tun,
        nat_lookup_result *res,
        int affinity_always_timeo,
        bool affinity_tmr_update
#if !(CALI_F_XDP) && !(CALI_F_CGROUP)
          , struct cali_tc_ctx *ctx
#endif
        )
{
 struct calico_nat_key nat_key = {
  .prefixlen = NAT_PREFIX_LEN_WITH_SRC_MATCH_IN_BITS,
  .addr = *ip_dst,
  .port = dport,
  .protocol = ip_proto,
  .saddr = *ip_src,
 };
 struct calico_nat_value *nat_lv1_val;
 struct calico_nat_secondary_key nat_lv2_key;
 struct
 calico_nat_dest *nat_lv2_val;
 struct calico_nat_affinity_key affkey = {};
 __u64 now = 0;

 nat_lv1_val = cali_nat_fe_lookup_elem(&nat_key);

 switch (nat_key.protocol) {
 case IPPROTO_UDP:
```

```
 CALI_DEBUG("NAT: 1st level lookup addr=" IP_FMT " port=%d udp\n", debug_ip(nat_key.addr), (int)dport);
 break;
case IPPROTO_TCP:
 CALI_DEBUG("NAT: 1st level lookup addr=" IP_FMT " port=%d tcp\n", debug_ip(nat_key.addr), (int)dport);
 break;
case IPPROTO_ICMP:
 CALI_DEBUG("NAT: 1st level lookup addr=" IP_FMT " port=%d icmp\n", debug_ip(nat_key.addr), (int)dport);
 break;
default:
 CALI_DEBUG("NAT: 1st level lookup addr=" IP_FMT " port=%d other\n", debug_ip(nat_key.addr), (int)dport);
 break;
}

if (!nat_lv1_val) {
 struct cali_rt *rt;

 CALI_DEBUG("NAT: Miss.\n");
 /* If the traffic originates at the node (workload or host)
  * check whether the destination is a remote nodeport to do a
  * straight NAT and avoid a possible extra hop.
  */
 if (!(CALI_F_FROM_WEP || CALI_F_TO_HEP
|| CALI_F_CGROUP ||
    (CALI_F_FROM_HEP && from_tun)) || ip_equal(*ip_dst, NP_SPECIAL_IP)) {
  return NULL;
 }

 /* XXX replace the following with a nodeport cidrs lookup once
  * XXX we have it.
  */
 rt = cali_rt_lookup(ip_dst);
 if (!rt) {
  CALI_DEBUG("NAT: route miss\n");
  if (!from_tun) {
   return NULL;
  }

  /* we got here because the original node that forwarded
   * it through the tunnel thought it is a nodeport, we can
   * use the wildcard nodeport entry.
   *
   * If the nodes have multiple IPs/NICs, RT entries would
   * not know the other IPs of other nodes.
   *
   * XXX we might wrongly consider another service IP that
   * XXX we do not know yet (anymore?) as a nodeport.
   */
  CALI_DEBUG("NAT: ignore rt lookup miss from tunnel, assume nodeport\n");
```

```
 } else if (!cali_rt_is_host(rt)) {
  CALI_DEBUG("NAT: route dest not a host\n");
  return NULL;
 }

 nat_key.addr = NP_SPECIAL_IP;
 nat_lv1_val = cali_nat_fe_lookup_elem(&nat_key);
 if
(!nat_lv1_val) {
  CALI_DEBUG("NAT: nodeport miss\n");
  return NULL;
 }
 CALI_DEBUG("NAT: nodeport hit\n");
}
/* With LB source range, we install a drop entry in the NAT FE map
 * with count equal to all-ones for both ip4/6. If we hit this entry,
 * packet is dropped.
 */
if (nat_lv1_val->count == NAT_FE_DROP_COUNT) {
 *res = NAT_FE_LOOKUP_DROP;
 return NULL;
}
__u32 count = nat_lv1_val->count;

if (nat_lv1_val->flags &  NAT_FLG_NAT_EXCLUDE) {
 *res = NAT_EXCLUDE;
 return NULL;
}

if (from_tun) {
 count = nat_lv1_val->local;
} else if (nat_lv1_val->flags & (NAT_FLG_INTERNAL_LOCAL | NAT_FLG_EXTERNAL_LOCAL)) {
 bool local_traffic = true;

 if (CALI_F_FROM_HEP) {
  struct cali_rt *rt = cali_rt_lookup(ip_src);

  if (!rt || (!cali_rt_is_host(rt) && !cali_rt_is_workload(rt))) {
   local_traffic = false;
  }
 }

 if ((local_traffic && (nat_lv1_val->flags & NAT_FLG_INTERNAL_LOCAL)) ||
   (!local_traffic && (nat_lv1_val->flags & NAT_FLG_EXTERNAL_LOCAL))) {
  count
= nat_lv1_val->local;
  CALI_DEBUG("local_traffic %d\n", local_traffic);
  CALI_DEBUG("count %d flags 0x%x\n", count, nat_lv1_val->flags);
```

```
 }
}

CALI_DEBUG("NAT: 1st level hit; id=%d\n", nat_lv1_val->id);

if (count == 0) {
 CALI_DEBUG("NAT: no backend\n");
 *res = NAT_NO_BACKEND;
 return NULL;
}

if (nat_lv1_val->affinity_timeo == 0 && !affinity_always_timeo) {
 goto skip_affinity;
}

struct calico_nat nat_data = {
 .addr = *ip_dst,
 .port = dport,
 .protocol = ip_proto,
};
affkey.nat_key = nat_data;
affkey.client_ip = *ip_src;

CALI_DEBUG("NAT: backend affinity %d seconds\n", nat_lv1_val->affinity_timeo ? : affinity_always_timeo);

struct calico_nat_affinity_val *affval;

now = bpf_ktime_get_ns();
affval = cali_nat_aff_lookup_elem(&affkey);
if (affval) {
 int timeo = (affinity_always_timeo ? : nat_lv1_val->affinity_timeo);
 if (now - affval->ts <= timeo  * 1000000000ULL) {
  CALI_DEBUG("NAT: using affinity backend " IP_FMT ":%d\n",
    debug_ip(affval->nat_dest.addr),
affval->nat_dest.port);
  if (affinity_tmr_update) {
   affval->ts = now;
  }

  return &affval->nat_dest;
 }
 CALI_DEBUG("NAT: affinity expired for " IP_FMT ":%d\n", debug_ip(*ip_dst), dport);
} else {
 CALI_DEBUG("no previous affinity for " IP_FMT ":%d", debug_ip(*ip_dst), dport);
}
/* To be k8s conformant, fall through to pick a random backend. */

skip_affinity:
```

```
 nat_lv2_key.id = nat_lv1_val->id;
 nat_lv2_key.ordinal = bpf_get_prandom_u32();
 nat_lv2_key.ordinal %= count;

 CALI_DEBUG("NAT: 1st level hit; id=%d ordinal=%d\n", nat_lv2_key.id, nat_lv2_key.ordinal);

 if (!(nat_lv2_val = cali_nat_be_lookup_elem(&nat_lv2_key))) {
  CALI_DEBUG("NAT: backend miss\n");
  *res = NAT_NO_BACKEND;
  return NULL;
 }

 CALI_DEBUG("NAT: backend selected " IP_FMT ":%d\n", debug_ip(nat_lv2_val->addr), nat_lv2_val->port);

 if (nat_lv1_val->affinity_timeo != 0 || affinity_always_timeo) {
  int err;
  struct calico_nat_affinity_val val = {
   .ts = now,
   .nat_dest
= *nat_lv2_val,
  };

  CALI_DEBUG("NAT: updating affinity for client " IP_FMT "\n", debug_ip(*ip_src));
  if ((err = cali_nat_aff_update_elem(&affkey, &val, BPF_ANY))) {
   CALI_INFO("NAT: failed to update affinity table: %d\n", err);
   /* we do carry on, we have a good nat_lv2_val */
  }
 }

 return nat_lv2_val;
}

#if !(CALI_F_XDP) && !(CALI_F_CGROUP)
static CALI_BPF_INLINE struct calico_nat_dest* calico_nat_lookup_tc(struct cali_tc_ctx *ctx,
          ipv46_addr_t *ip_src, ipv46_addr_t *ip_dst,
          __u8 ip_proto, __u16 dport,
          bool from_tun,
          nat_lookup_result *res)
{
 return calico_nat_lookup(ip_src, ip_dst, ip_proto, dport, from_tun, res, 0, false, ctx);
}
#endif

#endif /* __CALI_NAT_LOOKUP_H__ */
decap_sanity  # weird failure with decap_sanity_ns netns already existing, TBD
empty_skb # waiting the fix in bpf tree to make it to bpf-next
bpf_nf/tc-bpf-ct # test consistently failing on x86: https://github.com/libbpf/libbpf/pull/698#issuecomment-
1590341200
```

```
bpf_nf/xdp-ct   # test consistently failing on x86: https://github.com/libbpf/libbpf/pull/698#issuecomment-1590341200
kprobe_multi_bench_attach # suspected to cause crashes in CI
find_vma # test consistently fails on latest kernel, see https://github.com/libbpf/libbpf/issues/754 for details
bpf_cookie/perf_event
send_signal/send_signal_nmi
send_signal/send_signal_nmi_thread

lwt_reroute # crashes kernel, fix pending upstream
tc_links_ingress # fails, same fix is pending upstream
tc_redirect    # enough is enough, banned for life for flakiness
/* SPDX-License-Identifier: (LGPL-2.1 OR BSD-2-Clause) */

#ifndef __LINUX_FILTER_H
#define __LINUX_FILTER_H

#include <linux/bpf.h>

#define BPF_RAW_INSN(CODE, DST, SRC, OFF, IMM)   \
 ((struct bpf_insn) {     \
  .code = CODE,     \
  .dst_reg = DST,     \
  .src_reg = SRC,     \
  .off = OFF,     \
  .imm = IMM })

#define BPF_ALU32_IMM(OP, DST, IMM)    \
 ((struct bpf_insn) {     \
  .code  = BPF_ALU | BPF_OP(OP) | BPF_K,  \
  .dst_reg = DST,     \
  .src_reg = 0,     \
  .off   = 0,     \
  .imm   = IMM })

#define BPF_ALU64_IMM(OP, DST, IMM)    \
 ((struct bpf_insn) {     \
  .code  = BPF_ALU64 | BPF_OP(OP) | BPF_K, \
  .dst_reg = DST,     \
  .src_reg = 0,     \
  .off   = 0,     \
  .imm   = IMM })

#define BPF_MOV64_IMM(DST, IMM)     \
 ((struct bpf_insn) {     \
  .code  = BPF_ALU64 | BPF_MOV | BPF_K,  \
  .dst_reg = DST,     \
  .src_reg = 0,     \
  .off   = 0,     \
```

```
  .imm   = IMM })

#define BPF_CALL_REL(DST)     \
 ((struct bpf_insn) {     \
  .code = BPF_JMP | BPF_CALL,   \
  .dst_reg
 = 0,     \
  .src_reg = BPF_PSEUDO_CALL,   \
  .off = 0,     \
  .imm = DST })

#define BPF_EXIT_INSN()      \
 ((struct bpf_insn) {     \
  .code  = BPF_JMP | BPF_EXIT,   \
  .dst_reg = 0,     \
  .src_reg = 0,     \
  .off   = 0,     \
  .imm   = 0 })

#define BPF_EMIT_CALL(FUNC)     \
 ((struct bpf_insn) {     \
  .code  = BPF_JMP | BPF_CALL,   \
  .dst_reg = 0,     \
  .src_reg = 0,     \
  .off   = 0,     \
  .imm   = ((FUNC) - BPF_FUNC_unspec) })

#define BPF_LDX_MEM(SIZE, DST, SRC, OFF)   \
 ((struct bpf_insn) {     \
  .code  = BPF_LDX | BPF_SIZE(SIZE) | BPF_MEM, \
  .dst_reg = DST,     \
  .src_reg = SRC,     \
  .off   = OFF,     \
  .imm   = 0 })

#define BPF_STX_MEM(SIZE, DST, SRC, OFF)   \
 ((struct bpf_insn) {     \
  .code  = BPF_STX | BPF_SIZE(SIZE) | BPF_MEM, \
  .dst_reg = DST,     \
  .src_reg = SRC,     \
  .off   = OFF,     \
  .imm   = 0 })

#define BPF_ST_MEM(SIZE, DST, OFF, IMM)    \
 ((struct bpf_insn) {     \
  .code  = BPF_ST | BPF_SIZE(SIZE) |
 BPF_MEM, \
  .dst_reg = DST,     \
```

```
  .src_reg = 0,     \
  .off   = OFF,     \
  .imm   = IMM })

#define BPF_MOV64_REG(DST, SRC)     \
 ((struct bpf_insn) {     \
  .code  = BPF_ALU64 | BPF_MOV | BPF_X,  \
  .dst_reg = DST,     \
  .src_reg = SRC,     \
  .off   = 0,     \
  .imm   = 0 })

#define BPF_MOV32_IMM(DST, IMM)     \
 ((struct bpf_insn) {     \
  .code = BPF_ALU | BPF_MOV | BPF_K,  \
  .dst_reg = DST,     \
  .src_reg = 0,     \
  .off   = 0,     \
  .imm   = IMM })

#define BPF_LD_IMM64_RAW_FULL(DST, SRC, OFF1, OFF2, IMM1, IMM2) \
 ((struct bpf_insn) {     \
  .code = BPF_LD | BPF_DW | BPF_IMM,  \
  .dst_reg = DST,     \
  .src_reg = SRC,     \
  .off   = OFF1,     \
  .imm   = IMM1 }),   \
 ((struct bpf_insn) {     \
  .code  = 0,     \
  .dst_reg = 0,     \
  .src_reg = 0,     \
  .off   = OFF2,     \
  .imm   = IMM2 })

#define BPF_LD_MAP_FD(DST, MAP_FD)    \
 BPF_LD_IMM64_RAW_FULL(DST, BPF_PSEUDO_MAP_FD, 0, 0, \
        MAP_FD, 0)

#define BPF_LD_MAP_VALUE(DST, MAP_FD,
 VALUE_OFF)  \
 BPF_LD_IMM64_RAW_FULL(DST, BPF_PSEUDO_MAP_VALUE, 0, 0, \
        MAP_FD, VALUE_OFF)

#define BPF_JMP_IMM(OP, DST, IMM, OFF)    \
 ((struct bpf_insn) {     \
  .code = BPF_JMP | BPF_OP(OP) | BPF_K,  \
  .dst_reg = DST,     \
  .src_reg = 0,     \
```

```
  .off  = OFF,     \
  .imm  = IMM })

#define BPF_JMP32_IMM(OP, DST, IMM, OFF)   \
 ((struct bpf_insn) {     \
  .code = BPF_JMP32 | BPF_OP(OP) | BPF_K,  \
  .dst_reg = DST,     \
  .src_reg = 0,     \
  .off  = OFF,     \
  .imm  = IMM })

#endif
```

Format: http://dep.debian.net/deps/dep5
Upstream-Name: calico
Source: http://github.com/projectcalico/felix

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```
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/* Copyright (c) 2021 Facebook */
#ifndef __BPF_GEN_INTERNAL_H
#define __BPF_GEN_INTERNAL_H

#include "bpf.h"

struct ksym_relo_desc {
 const char *name;
 int kind;
 int insn_idx;
 bool is_weak;
 bool is_typeless;
 bool is_ld64;
};

struct ksym_desc {
 const char *name;
 int ref;
 int kind;
 union {
  /* used for kfunc */
```

```
  int off;
  /* used for typeless ksym */
  bool typeless;
 };
 int insn;
 bool is_ld64;
};

struct bpf_gen {
 struct gen_loader_opts *opts;
 void *data_start;
 void *data_cur;
 void *insn_start;
 void *insn_cur;
 ssize_t cleanup_label;
 __u32 nr_progs;
 __u32 nr_maps;
 int log_level;
 int error;
 struct ksym_relo_desc *relos;
 int relo_cnt;
 struct bpf_core_relo *core_relos;
 int core_relo_cnt;
 char attach_target[128];
 int attach_kind;
 struct ksym_desc *ksyms;
 __u32 nr_ksyms;
 int fd_array;
 int nr_fd_array;
};

void bpf_gen__init(struct bpf_gen *gen, int log_level, int nr_progs, int nr_maps);
int bpf_gen__finish(struct
 bpf_gen *gen, int nr_progs, int nr_maps);
void bpf_gen__free(struct bpf_gen *gen);
void bpf_gen__load_btf(struct bpf_gen *gen, const void *raw_data, __u32 raw_size);
void bpf_gen__map_create(struct bpf_gen *gen,
    enum bpf_map_type map_type, const char *map_name,
    __u32 key_size, __u32 value_size, __u32 max_entries,
    struct bpf_map_create_opts *map_attr, int map_idx);
void bpf_gen__prog_load(struct bpf_gen *gen,
   enum bpf_prog_type prog_type, const char *prog_name,
   const char *license, struct bpf_insn *insns, size_t insn_cnt,
   struct bpf_prog_load_opts *load_attr, int prog_idx);
void bpf_gen__map_update_elem(struct bpf_gen *gen, int map_idx, void *value, __u32 value_size);
void bpf_gen__map_freeze(struct bpf_gen *gen, int map_idx);
void bpf_gen__record_attach_target(struct bpf_gen *gen, const char *name, enum bpf_attach_type type);
void bpf_gen__record_extern(struct bpf_gen *gen, const char *name, bool is_weak,
```

```
      bool is_typeless, bool is_ld64, int kind,
 int insn_idx);
void bpf_gen__record_relo_core(struct bpf_gen *gen, const struct bpf_core_relo *core_relo);
void bpf_gen__populate_outer_map(struct bpf_gen *gen, int outer_map_idx, int key, int inner_map_idx);

#endif
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#ifndef __CALI_ICMP_H__
#define __CALI_ICMP_H__

#ifdef IPVER6
#include "icmp6.h"

static CALI_BPF_INLINE int icmp_reply(struct cali_tc_ctx *ctx, __u8 type, __u8 code, __be32 un)
{
 return icmp_v6_reply(ctx, type, code, un);
}

#else
#include "icmp4.h"

static CALI_BPF_INLINE int icmp_reply(struct cali_tc_ctx *ctx, __u8 type, __u8 code, __be32 un)
{
 return icmp_v4_reply(ctx, type, code, un);
}

#endif

#endif /* __CALI_ICMP_H__ */
```

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```
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#ifndef __CALI_GLOBALS_H__
#define __CALI_GLOBALS_H__

#include "ip_addr.h"

#define DECLARE_TC_GLOBAL_DATA(name, ip_t) \
struct name {    \
 ip_t host_ip;   \
 __be16 tunnel_mtu;  \
 __be16 vxlan_port;  \
```

```
 ip_t intf_ip;   \
 __be32 ext_to_svc_mark;  \
 __be16 psnat_start;  \
 __be16 psnat_len;  \
 ip_t host_tunnel_ip;  \
 __be32 flags;   \
 __be16 wg_port;   \
 __be16 __pad;   \
 __u32 natin_idx;  \
 __u32 natout_idx;  \
 __u8 iface_name[16];  \
 __u32 log_filter_jmp;  \
 __u32 jumps[40];  \
}

DECLARE_TC_GLOBAL_DATA(cali_tc_global_data, ipv6_addr_t);
struct cali_tc_globals {
 struct cali_tc_global_data data;

 /* Needs to be 32bit aligned as it is followed by scratch area for     \
  * building headers. We reuse the same slot in state map to save     \
  * ourselves a lookup.           \
  */            \
 __u32 __scratch[];
 /* N.B. this provides pointer to the location but does not add to the size */ \
};

struct cali_tc_preamble_globals {
 struct cali_tc_global_data v4;
 struct cali_tc_global_data v6;
};

enum cali_globals_flags {
 CALI_GLOBALS_RESERVED1   = 0x00000002,
 CALI_GLOBALS_RESERVED2   = 0x00000004,
 CALI_GLOBALS_RESERVED3   = 0x00000008,
 CALI_GLOBALS_RPF_OPTION_ENABLED  = 0x00000010,
 CALI_GLOBALS_RPF_OPTION_STRICT  = 0x00000020,
 CALI_GLOBALS_RESERVED7   = 0x00000040,
 CALI_GLOBALS_NO_DSR_CIDRS  = 0x00000080,
 CALI_GLOBALS_LO_UDP_ONLY  = 0x00000100,
 CALI_GLOBALS_REDIRECT_PEER  = 0x00000200,
};

struct cali_ctlb_globals {
 __be32 udp_not_seen_timeo;
 bool exclude_udp;
};
```

```
struct cali_xdp_globals {
 __u8 iface_name[16];
 __u32 jumps[16];
};

struct cali_xdp_preamble_globals {
 struct cali_xdp_globals v4;
 struct cali_xdp_globals v6;
};

#endif /* __CALI_GLOBALS_H__ */
```

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1.5260 augeas 1.14.1-1build2

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```
/* Extract the last component (base name) of a file name.

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  along with this program.  If not, see <https://www.gnu.org/licenses/>.  */

#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

#include <stddef.h>

#ifndef DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif

#ifdef __cplusplus
extern "C" {
#endif
```

```
/*
 Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(), defined in <string.h>, does
      not consider trailing slashes to be part of the component:

 FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


#ifdef __cplusplus
} /* extern "C" */
#endif
```

#endif /* _BASENAME_LGPL_H */

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Version 2.1, February 1999

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1.5261 libsys-virt-perl 10.0.0-1build2

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Version 2.1, February 1999

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That's all there is to it!

1.5263 corefile-migration 1.0.26

1.5263.1 Available under license :

```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
```

```
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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1.5264 icoutils 0.32.3-4build2

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1.5265 github.com/operator-framework/operator-registry 1.56.0

1.5265.1 Available under license :

Execute end-to-end tests for local development

To execute the end-to-end (e2e) test suite on your local development system, you have two options:

1. Use a dynamically generated kind server. Each run of the test suite will automatically start a new kind cluster, and will be torn down upon completion of tests.

1. Stand up your own minikube or other cluster and use kubeconfig. This option is good for starting a cluster and keeping it
running even after the test suite has completed.

Kind without SSL

1. Start a registry server without using SSL

```bash
./scripts/start_registry.sh -s kind-registry
```

1. Start the e2e tests:

```bash
DOCKER_REGISTRY_HOST=localhost:5000 GOENV='GOOS=linux' make build e2e USEHTTP="true" CLUSTER=kind
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
DOCKER_REGISTRY_HOST=localhost:5000 GOENV='GOOS=linux' make build e2e TEST='builds and manipulates bundle
and index images' USEHTTP="true" CLUSTER=kind
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1,kind ./test/e2e
```

Kind with SSL

1. Start a registry server with SSL (NOTE: SSL CA root will be installed and server cert/key will be generated)

```bash
./scripts/start_registry.sh kind-registry
```

1. Start the e2e tests:

```bash
DOCKER_REGISTRY_HOST=localhost:443 GOENV='GOOS=linux' make build e2e CLUSTER=kind
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
DOCKER_REGISTRY_HOST=localhost:443 GOENV='GOOS=linux' make build e2e TEST='builds and manipulates
bundle and index images' CLUSTER=kind
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
```

```
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1,kind ./test/e2e
```

Minikube (or other type) using kubeconfig without SSL

1. Install [`minikube`](https://minikube.sigs.k8s.io/docs/start/)

1. Create a minikube cluster

```bash
minikube start
```

1. Start a registry server without using SSL

```bash
./scripts/start_registry.sh -s minikube-registry
```

1. Start the e2e tests:

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:5000 make build e2e SKIPTLS="true"
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:5000 make build e2e TEST='builds and manipulates bundle and index images' SKIPTLS="true"
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1 ./test/e2e
```

TIP: use a non-dynamic `kind` server by using `kind get kubeconfig --name "kind" > /tmp/kindconfig` and set `KUBECONFIG="/tmp/kindconfig"`

Minikube (or other type) using kubeconfig with SSL

1. Install [`minikube`](https://minikube.sigs.k8s.io/docs/start/)

1. Create a minikube cluster

```bash
minikube start
```

1. Start a registry server with SSL (NOTE: SSL CA root will be installed
and server cert/key will be generated)

```bash
./scripts/start_registry.sh minikube-registry
```

1. Start the e2e tests:

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:443 make build e2e
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:443 make build e2e
TEST='builds and manipulates bundle and index images'
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the
make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds
and manipulates bundle and index images' -tags=json1 ./test/e2e
```

TIP: use a non-dynamic `kind` server by using `kind get kubeconfig --name "kind" > /tmp/kindconfig`
and set `KUBECONFIG="/tmp/kindconfig"`

Known Limitations

Currently the test case `Launch bundle` in test/e2e/bundle_image_test.go assumes that the `opm` executable used in the test is compiled for linux.
If you run this test on a darwin environment, the kube job will not succeed unless you manually cross compile for linux and include
the binary at `bin/opm`.
Add database versioning and migrations to output database

Status: Pending

Version: alpha

Implementation owner: TBD

Abstract

Proposal to add database versioning and migration capability to the output of operator-registry commands

Motivation

In an attempt at optimizing the registry database usage in OLM to allow the registry database to be stored in a container image, a method is needed to add to the database over time. Since these database files will be long living, it becomes a requirement that the database can migrate to a new schema over time. This proposal attempts to solve that problem by implementing a method with which database versions can be migrated with existing db files over time.

Proposal

Migration Method

At a high level, the migration method is relatively straightforward. The database will contain a current migration version and when any additive operation is called with an existing database as input, the first step will be to run the migration to upgrade
the database schema to the latest version.

Rather than reinventing the database migration process, operator-registry will use an existing database migration tool that has already defined a set of semantics and conventions. This proposal suggests using the [golang-migrate](https://github.com/golang-migrate/migrate) tool for this purpose. Golang-migrate uses a set of conventions to define migrations.

Firstly, it defines migrations as a set of sql files that live in a flat database folder. Migrations are individually defined as a pair of up and down migration scripts. These up and down scripts each define a method of going to and back from a particular database version and should be opposites semantically. Each script pair has a unique 64 bit unsigned integer identifier followed by an underscore, as well as a title, a direction, and ends in the `.sql` extension: `${version}_${title}.${direction(down/up)}.sql`. The versions are ordered, with the lowest integer value coming first and
the latest version defining the current database migration version in the db. For more details on the migration format, please see https://github.com/golang-migrate/migrate/blob/master/MIGRATIONS.md.

```
# example migrations folder
db_migrations
 201909251522_add_users_table.up.sql
 201909251522_add_users_table.down.sql
 201909251510_first_migration.up.sql
 201909251510_first_migration.down.sql
```

```

Once that migration schema is defined, whenever any additive operation is run against the database we will first use the migrate API to upgrade the schema to the latest version. See https://godoc.org/github.com/golang-migrate/migrate#Migrate.Up for more details on that API.

### Versioning fresh databases

One other consideration of note here is that the operator-registry database is not a long living database in the traditional sense, since the database is often created from scratch. All common migration tools do not generally account for such an edge case, so this proposal also
 defines a method of initializing the database at a particular migration version. Since the migration version is a matter of convention on file names, we can infer the migration version by parsing the migration folder and finding the latest migration script version. Then, once we initialize the database on startup we can use `golang-migrate` API to force the initial migration version. See https://godoc.org/github.com/golang-migrate/migrate#Migrate.Force for more details on that API.

### Schema Definition

One thing to note is the choice of how the database schema is defined. Currently that schema is defined in source code here in [/pkg/sqlite/load.go](https://github.com/operator-framework/operator-registry/blob/master/pkg/sqlite/load.go#L29) as a list of create table statements.

However, once sql migrations are written the database schema is sometimes generated in two ways (through a migration upgrade or from scratch) as defined above. In that case, there are a few ways to do that. One
 is to leave the initial schema as is and use the migrations on a clean install as well -- but that means that the schema is not defined in one single human readable place. This can commonly be worked around by using a migration tool that can output an example of the sql schema for the purpose of development.

The other option, and the one that this proposal defines as the solution, is to keep the schema definition in `load.go` in sync with the changes defined in each migration. In this case, it is possible for the database to go out of sync on migration vs from scratch in the case where the migration was written properly. This can be easily mitigated by writing an automated test that always ensures that some initial bundle database can be migrated to a latest version and have the same schema as a clean database.

As a result, this implementation will require writing tests to ensure that the schema versioning is in sync between upgrade and scratch creation.

### Choice of Migration Tool

One
 point of this proposal is deciding to use the `golang-migrate` project as a method of driving migration conventions and the migrations themselves. Below is a list of criteria that this tool fulfilled when making that choice:

- Popular and well supported
- Good documentation
- Supports lots of different database drivers, in the event that we move away from sqlite we can maintain the use of workflows around migrations
```

- No need to ship a migration binary, migration can be handled by importing `golang-migrate` and running in source
- Has a nice API for upgrading and reading the schema version for our scratch scenario that doesn't require us to expect a particular convention of database versioning
- Allows defining migration versions as timestamps

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Add a new migration

Migrations live in `pkg/sqlite/migrations`.

Create a new file (and tests!) that increments the migration number:

```sh
touch pkg/sqlite/migrations/002_migration_description.go
touch pkg/sqlite/migrations/002_migration_description_test.go
```

Create the migration instance and register it:

```go
package migrations

import (
 "context"
 "database/sql"
)

// This should increment the value from the previous migration
const MyMigrationKey = 2


var myNewMigration = &Migration{
```

```
  // The id for this migration
 Id: MyMigrationKey,
 Up: func(ctx context.Context, tx *sql.Tx) error {
     // the up version of this migration
  return nil
 },
 Down: func(ctx context.Context, tx *sql.Tx) error {
     // the down version of this migration
  return nil
 },
}

// Register this migration
func init() {
 migrations[MyMigrationKey] = myNewMigration
}
```

See the existing migrations in the `pkg/sqlite/migrations` for examples of migrations and tests.
Releases

opm

Binary releases of opm are built by Github Actions, see [release.yaml](../../.github/workflows/release.yaml) for details.
amd64 builds are produced for linux, macos, and windows.

opm follows semantic versioning, with the latest version derived from the newest semver tag.

Triggering a release

Releases are triggered via tags. Make a new release by tagging a commit with an appropriate semver tag.

```console
$ git tag -a -m "operator-registry vX.Y.Z" vX.Y.Z
$ git push upstream vX.Y.Z
```

Checking the build

Builds for a release can be found [on GitHub Actions](https://github.com/operator-framework/operator-registry/actions). After triggering a build, watch for logs. If the build is successful, a new [release](https://github.com/operator-framework/operator-registry/releases) should appear in GitHub. It will be a draft release, so once all the artifacts are available you need to edit the release to publish the draft.

Docker images

The primary image produced

from this repository is [quay.io/operator-framework/opm](https://quay.io/repository/operator-framework/opm). See [goreleaser.yaml](../../.github/workflows/goreleaser.yaml) for details. The following tagging system is used for this image:
- `:master` - tracks this repository's `master` branch.
- `:latest` - tracks the highest semver tag in the repository.
- `vX` - tracks the highest semver tag with major version `X`.
- `vX.Y` - tracks the highest semver tag with the major/minor version `X.Y`.
- `vX.Y.Z` - pushed on every non-prerelease semver tag.

For each of the appropriate tags, the build configuration produces images and a manifest list for the following platforms:
- `linux/amd64`
- `linux/arm64`
- `linux/s390x`
- `linux/ppc64le`

Other deprecated images are also built via Quay triggers. The tags in Quay.io will match the git tag, and for these images, `:latest` tracks the `master` branch:

- [quay.io/operator-framework/operator-registry-server](https://quay.io/repository/operator-framework/operator-registry-server)
- [quay.io/operator-framework/configmap-operator-registry](https://quay.io/repository/operator-framework/configmap-operator-registry)
- [quay.io/operator-framework/upstream-registry-builder](https://quay.io/repository/operator-framework/upstream-registry-builder?tab=tags)

It is recommended that you always pull by digest, and only use images that are tagged with a version.

1.5266 fuse 1:1:2022.10.3-1.2ubuntu3

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1.5267 osinfo-db 0.20250606-0ubuntu0.24.04.1

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1.5268 operator-framework-operator-registry 1.56.0

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Execute end-to-end tests for local development

To execute the end-to-end (e2e) test suite on your local development system, you have two options:

1. Use a dynamically generated kind server. Each run of the test suite will automatically start a new kind cluster, and will be torn down upon completion of tests.

1. Stand up your own minikube or other cluster and use kubeconfig. This option is good for starting a cluster and keeping it
running even after the test suite has completed.

Kind without SSL

1. Start a registry server without using SSL

```bash
./scripts/start_registry.sh -s kind-registry
```

1. Start the e2e tests:

```bash
DOCKER_REGISTRY_HOST=localhost:5000 GOENV='GOOS=linux' make build e2e USEHTTP="true" CLUSTER=kind
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
DOCKER_REGISTRY_HOST=localhost:5000 GOENV='GOOS=linux' make build e2e TEST='builds and manipulates bundle
and index images' USEHTTP="true" CLUSTER=kind
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1,kind ./test/e2e
```

Kind with SSL

1. Start a registry server with SSL (NOTE: SSL CA root will be installed and server cert/key will be generated)

```bash
./scripts/start_registry.sh kind-registry
```

1. Start the e2e tests:

```bash
DOCKER_REGISTRY_HOST=localhost:443 GOENV='GOOS=linux' make build e2e CLUSTER=kind
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
DOCKER_REGISTRY_HOST=localhost:443 GOENV='GOOS=linux' make build e2e TEST='builds and manipulates
bundle and index images' CLUSTER=kind
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1,kind ./test/e2e
```

Minikube (or other type) using kubeconfig without SSL

1. Install [`minikube`](https://minikube.sigs.k8s.io/docs/start/)

1. Create a minikube cluster

```bash
minikube start
```

1. Start a registry server without using SSL

```bash
./scripts/start_registry.sh -s minikube-registry
```

1. Start the e2e tests:

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:5000 make build e2e SKIPTLS="true"
```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

```bash
KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:5000 make build e2e TEST='builds and manipulates bundle and index images' SKIPTLS="true"
```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

```bash
go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds and manipulates bundle and index images' -tags=json1 ./test/e2e
```

TIP: use a non-dynamic `kind` server by using `kind get kubeconfig --name "kind" > /tmp/kindconfig` and set `KUBECONFIG="/tmp/kindconfig"`

Minikube (or other type) using kubeconfig with SSL

1. Install [`minikube`](https://minikube.sigs.k8s.io/docs/start/)

1. Create a minikube cluster

```bash
minikube start
```

1. Start a registry server with SSL (NOTE: SSL CA root will be installed
 and server cert/key will be generated)

 ```bash
 ./scripts/start_registry.sh minikube-registry
 ```

1. Start the e2e tests:

 ```bash
 KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:443 make build e2e
 ```

1. Run a specific BDD test using the `TEST` argument to make. Note that this argument uses regular expressions.

 ```bash
 KUBECONFIG="$HOME/.kube/config" DOCKER_REGISTRY_HOST=localhost:443 make build e2e
TEST='builds and manipulates bundle and index images'
 ```

1. If you want a quick way to ensure that your TEST regex argument will work, you can bypass the
make file and use `--dry-run` with `--focus` and see if the regex would trigger your specific test(s).

 ```bash
 go run github.com/onsi/ginkgo/v2/ginkgo --v --randomize-all --randomize-suites --race --dry-run --focus 'builds
and manipulates bundle and index images' -tags=json1 ./test/e2e
 ```

TIP: use a non-dynamic `kind` server by using `kind get kubeconfig --name "kind" > /tmp/kindconfig`
 and set `KUBECONFIG="/tmp/kindconfig"`

Known Limitations

Currently the test case `Launch bundle` in test/e2e/bundle_image_test.go assumes that the `opm` executable used in
the test is compiled for linux.
If you run this test on a darwin environment, the kube job will not succeed unless you manually cross compile for
linux and include
the binary at `bin/opm`.
Add database versioning and migrations to output database

Status: Pending

Version: alpha

Implementation owner: TBD

Abstract

Proposal to add database versioning and migration capability to the output of operator-registry commands

Motivation

In an attempt at optimizing the registry database usage in OLM to allow the registry database to be stored in a container image, a method is needed to add to the database over time. Since these database files will be long living, it becomes a requirement that the database can migrate to a new schema over time. This proposal attempts to solve that problem by implementing a method with which database versions can be migrated with existing db files over time.

Proposal

Migration Method

At a high level, the migration method is relatively straightforward. The database will contain a current migration version and when any additive operation is called with an existing database as input, the first step will be to run the migration to upgrade
the database schema to the latest version.

Rather than reinventing the database migration process, operator-registry will use an existing database migration tool that has already defined a set of semantics and conventions. This proposal suggests using the [golang-migrate](https://github.com/golang-migrate/migrate) tool for this purpose. Golang-migrate uses a set of conventions to define migrations.

Firstly, it defines migrations as a set of sql files that live in a flat database folder. Migrations are individually defined as a pair of up and down migration scripts. These up and down scripts each define a method of going to and back from a particular database version and should be opposites semantically. Each script pair has a unique 64 bit unsigned integer identifier followed by an underscore, as well as a title, a direction, and ends in the `.sql` extension: `${version}_${title}.${direction(down/up)}.sql`. The versions are ordered, with the lowest integer value coming first and
the latest version defining the current database migration version in the db. For more details on the migration format, please see https://github.com/golang-migrate/migrate/blob/master/MIGRATIONS.md.

```
# example migrations folder
db_migrations
 201909251522_add_users_table.up.sql
 201909251522_add_users_table.down.sql
 201909251510_first_migration.up.sql
 201909251510_first_migration.down.sql
```

Once that migration schema is defined, whenever any additive operation is run against the database we will first use the migrate API to upgrade the schema to the latest version. See https://godoc.org/github.com/golang-migrate/migrate#Migrate.Up for more details on that API.

Versioning fresh databases

One other consideration of note here is that the operator-registry database is not a long living database in the traditional sense, since the database is often created from scratch. All common migration tools do not generally account for such an edge case, so this proposal also
defines a method of initializing the database at a particular migration version. Since the migration version is a matter of convention on file names, we can infer the migration version by parsing the migration folder and finding the latest migration script version. Then, once we initialize the database on startup we can use `golang-migrate` API to force the initial migration version. See https://godoc.org/github.com/golang-migrate/migrate#Migrate.Force for more details on that API.

Schema Definition

One thing to note is the choice of how the database schema is defined. Currently that schema is defined in source code here in [/pkg/sqlite/load.go](https://github.com/operator-framework/operator-registry/blob/master/pkg/sqlite/load.go#L29) as a list of create table statements.

However, once sql migrations are written the database schema is sometimes generated in two ways (through a migration upgrade or from scratch) as defined above. In that case, there are a few ways to do that. One
is to leave the initial schema as is and use the migrations on a clean install as well -- but that means that the schema is not defined in one single human readable place. This can commonly be worked around by using a migration tool that can output an example of the sql schema for the purpose of development.

The other option, and the one that this proposal defines as the solution, is to keep the schema definition in `load.go` in sync with the changes defined in each migration. In this case, it is possible for the database to go out of sync on migration vs from scratch in the case where the migration was written properly. This can be easily mitigated by writing an automated test that always ensures that some initial bundle database can be migrated to a latest version and have the same schema as a clean database.

As a result, this implementation will require writing tests to ensure that the schema versioning is in sync between upgrade and scratch creation.

Choice of Migration Tool

One
point of this proposal is deciding to use the `golang-migrate` project as a method of driving migration conventions and the migrations themselves. Below is a list of criteria that this tool fulfilled when making that choice:

- Popular and well supported
- Good documentation
- Supports lots of different database drivers, in the event that we move away from sqlite we can maintain the use of workflows around migrations
- No need to ship a migration binary, migration can be handled by importing `golang-migrate` and running in source
- Has a nice API for upgrading and reading the schema version for our scratch scenario that doesn't require us to expect a particular convention of database versioning
- Allows defining migration versions as timestamps

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Add a new migration

Migrations live in `pkg/sqlite/migrations`.

Create a new file (and tests!) that increments the migration number:

```sh
touch pkg/sqlite/migrations/002_migration_description.go
touch pkg/sqlite/migrations/002_migration_description_test.go
```

Create the migration instance and register it:

```go
package migrations

import (
 "context"
 "database/sql"
)

// This should increment the value from the previous migration
const MyMigrationKey = 2


var myNewMigration = &Migration{
  // The id for this migration
 Id: MyMigrationKey,
 Up: func(ctx context.Context, tx *sql.Tx) error {
    // the up version of this migration
  return nil
 },
 Down: func(ctx context.Context, tx *sql.Tx) error {
    // the down version of this migration
```

```
  return nil
 },
}

// Register this migration
func init() {
 migrations[MyMigrationKey] = myNewMigration
}
```

See the existing migrations in the `pkg/sqlite/migrations` for examples of migrations and tests.

Releases

opm

Binary releases of opm are built by Github Actions, see [release.yaml](../../.github/workflows/release.yaml) for details.
amd64 builds are produced for linux, macos, and windows.

opm follows semantic versioning, with the latest version derived from the newest semver tag.

Triggering a release

Releases are triggered via tags. Make a new release by tagging a commit with an appropriate semver tag.

```console
$ git tag -a -m "operator-registry vX.Y.Z" vX.Y.Z
$ git push upstream vX.Y.Z
```

Checking the build

Builds for a release can be found [on GitHub Actions](https://github.com/operator-framework/operator-registry/actions). After triggering a build, watch for logs. If the build is successful, a new [release](https://github.com/operator-framework/operator-registry/releases) should appear in GitHub. It will be a draft release, so once all the artifacts are available you need to edit the release to publish the draft.

Docker images

The primary image produced
 from this repository is [quay.io/operator-framework/opm](https://quay.io/repository/operator-framework/opm). See [goreleaser.yaml](../../.github/workflows/goreleaser.yaml) for details. The following tagging system is used for this image:
- `:master` - tracks this repository's `master` branch.
- `:latest` - tracks the highest semver tag in the repository.
- `vX` - tracks the highest semver tag with major version `X`.
- `vX.Y` - tracks the highest semver tag with the major/minor version `X.Y`.
- `vX.Y.Z` - pushed on every non-prerelease semver tag.

For each of the appropriate tags, the build configuration produces images and a manifest list for the following platforms:
- `linux/amd64`
- `linux/arm64`
- `linux/s390x`
- `linux/ppc64le`

Other deprecated images are also built via Quay triggers. The tags in Quay.io will match the git tag, and for these images, `:latest` tracks the `master` branch:

- [quay.io/operator-framework/operator-registry-server](https://quay.io/repository/operator-framework/operator-registry-server)
 - [quay.io/operator-framework/configmap-operator-registry](https://quay.io/repository/operator-framework/configmap-operator-registry)
- [quay.io/operator-framework/upstream-registry-builder](https://quay.io/repository/operator-framework/upstream-registry-builder?tab=tags)

It is recommended that you always pull by digest, and only use images that are tagged with a version.

1.5269 github.com/operator-framework/operator-manifest-tools 0.10.0

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1.5270 operator-framework-operator-sdk 1.41.1

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a) Accompany
the work with the complete corresponding
machine-readable source code for the Library including whatever

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That's all there is to it!
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*)

(* This is the traditional virt-sparsify mode: We copy from a
* source disk to a destination disk.
*)

open Unix
open Printf

open Std_utils
open Tools_utils
open Common_gettext.Gettext
open Unix_utils

open Utils
open
 Cmdline

module G = Guestfs

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

let run indisk outdisk check_tmpdir compress convert
   format ignores option tmp_param zeroes ks =

 (* Once we have got past argument parsing and start to create
  * temporary files (including the potentially massive overlay file), we
  * need to catch SIGINT (^C) and exit cleanly so the temporary file
  * goes away.  Note that we don't delete temporaries in the signal
  * handler.
  *
  * To safely set a signal handler, we must call [On_exit.register]
  * because that may register signal handlers which we override.
  *)
 On_exit.register ();
 let do_sigint _ = exit 1 in
 Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

 (* What should the output format be?  If the user specified an
  * input format, use that, else detect it from the source image.
  *)
 let output_format =
   match convert with
   | Some fmt -> fmt          (* user specified
```

```
output conversion *)
  | None ->
    match format with
    | Some fmt -> fmt    (* user specified input format, use that *)
    | None ->
      (* Don't know, so we must autodetect. *)
      match (open_guestfs ())#disk_format indisk  with
      | "unknown" ->
        error (f_"cannot detect input disk format; use the \
                --format parameter")
      | fmt -> fmt in

(* Compression is not supported by raw output (RHBZ#852194). *)
if output_format = "raw" && compress then
  error (f_"--compress cannot be used for raw output.  \
            Remove this option or use --convert qcow2.");

(* Use TMPDIR or --tmp parameter? *)
let tmp_place =
  match tmp_param with
  | None -> Directory (Filename.get_temp_dir_name ()) (* $TMPDIR or /tmp *)
  | Some dir when is_directory dir -> Directory dir
  | Some dev when is_block_device dev -> Block_device dev
  | Some file when String.is_prefix file "prebuilt:" ->
    let file = String.sub
file 9 (String.length file - 9) in
    if not (Sys.file_exists file) then
      error (f_"--tmp prebuilt:file: %s: file does not exist") file;
    let g = open_guestfs () in
    if g#disk_format file <> "qcow2" then
      error (f_"--tmp prebuilt:file: %s: file format is not qcow2") file;
    if not (g#disk_has_backing_file file) then
      error (f_"--tmp prebuilt:file: %s: file does not have backing file")
        file;
    Prebuilt_file file
  | Some path ->
    error (f_"--tmp parameter must point to a directory, block device \
              or prebuilt file") in

(* Check there is enough space in temporary directory. *)
(match tmp_place with
| Block_device _
| Prebuilt_file _ -> ()
| Directory tmpdir ->
  (* Get virtual size of the input disk. *)
  let virtual_size = (open_guestfs ())#disk_virtual_size indisk in
  debug "input disk virtual size is %Ld bytes (%s)"
        virtual_size (human_size virtual_size);
```

```
  let print_warning () =
    let free_space = StatVFS.free_space (StatVFS.statvfs tmpdir) in
    let extra_needed = virtual_size -^ free_space in
    if extra_needed > 0L then (
      warning (f_"\
There may not be enough free space on %s.
You may need to set TMPDIR to point to a directory with more free space.

Max needed: %s.  Free: %s.  May need another %s.

Note this is an overestimate.  If the guest disk is full of data
then not as much free space would be required.

You can ignore this warning or change it to a hard failure using the
--check-tmpdir=(ignore|continue|warn|fail) option.  See virt-sparsify(1).

%!")
        tmpdir (human_size virtual_size)
        (human_size free_space) (human_size extra_needed);
      true
    ) else false
  in

  match check_tmpdir with
  | `Ignore -> ()
  | `Continue -> ignore (print_warning ())
  | `Warn ->
    if print_warning () then (
      eprintf "Press RETURN to continue or ^C to quit.\n%!";
      ignore (read_line ())
    );

| `Fail ->
    if print_warning () then (
      eprintf "Exiting because --check-tmpdir=fail was set.\n%!";
      exit 2
    )
);

(* Create the temporary overlay file. *)
let overlaydisk =
  (match tmp_place with
  | Directory tmpdir ->
    message (f_"Create overlay file in %s to protect source disk") tmpdir
  | Block_device device ->
    message (f_"Create overlay device %s to protect source disk") device
  | Prebuilt_file file ->
```

```
    message (f_"Using prebuilt file %s as overlay") file
  );

  (* Create 'tmp' with the indisk as the backing file. *)
  let create tmp =
    let g = open_guestfs () in
    g#disk_create
      ~backingfile:indisk ?backingformat:format ~compat:"1.1"
      tmp "qcow2" Int64.minus_one
  in

  match tmp_place with
  | Directory temp_dir ->
    let tmp = Filename.temp_file ~temp_dir "sparsify" ".qcow2" in
    On_exit.unlink tmp;
    create tmp;
    tmp

  | Block_device device ->
    create device;
     device

  | Prebuilt_file file ->
    (* Don't create anything, use the prebuilt file as overlay. *)
    file in

message (f_"Examine source disk");

(* Connect to libguestfs. *)
let g =
  let g = open_guestfs () in

  (* Note that the temporary overlay disk is always qcow2 format. *)
  g#add_drive ~format:"qcow2" ~readonly:false ~cachemode:"unsafe" overlaydisk;

  if not (quiet ()) then (
    let machine_readable = machine_readable () <> None in
    Progress.set_up_progress_bar ~machine_readable g
  );
  g#set_network (key_store_requires_network ks);
  g#launch ();

  g in

(* Decrypt the disks. *)
inspect_decrypt g ks;

(* Modify SIGINT handler (set first above) to cancel the handle. *)
```

```
let do_sigint _ =
  g#user_cancel ();
  exit 1
in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Write zeroes for non-ignored filesystems that we are able to mount,
 * and selected swap partitions.
 *)
let filesystems = g#list_filesystems
() in
let btrfs_filesystems = List.filter (
  fun (fs, fstype) ->
    fstype = "btrfs"
) filesystems in
let btrfs_filesystems = List.map fst btrfs_filesystems in
let filesystems = List.map fst filesystems in
let filesystems = List.sort compare filesystems in

let is_ignored fs =
  let fs = g#canonical_device_name fs in
  List.exists (fun fs' -> fs = g#canonical_device_name fs') ignores
in

let is_read_only_lv = is_read_only_lv g in

let is_readonly_btrfs_snapshot fs mp =
  try
    let is_btrfs = List.mem fs btrfs_filesystems in
    if is_btrfs then (
      try
        let vol_info = g#btrfs_subvolume_show mp in
        String.find (List.assoc "Flags" vol_info) "readonly" <> -1
      with G.Error _ -> false
    ) else false
  with Not_found -> false
in

let is_readonly_device mp =
  let statvfs = g#statvfs mp in
  let flags = statvfs.G.flag in
  (* 0x01 is ST_RDONLY in Linux' GNU libc. *)
  flags <> -1_L && (flags &^
0x1_L) <> 0_L
in

List.iter (
  fun fs ->
```

```
  if not (is_ignored fs) && not (is_read_only_lv fs) then (
    if List.mem fs zeroes then (
      message (f_"Zeroing %s") fs;

      g#zero_device fs
    ) else (
      let mounted =
        try g#mount fs "/"; true
        with _ -> false in

      if mounted then (
        if is_readonly_btrfs_snapshot fs "/" then (
          info (f_"Skipping %s, as it is a read-only btrfs snapshot.") fs;
        ) else if is_readonly_device "/" then (
          info (f_"Skipping %s, as it is a read-only device.") fs;
        ) else (
          message (f_"Fill free space in %s with zero") fs;
          g#zero_free_space "/"
        )
      ) else (
        let is_linux_x86_swap =
          (* Look for the signature for Linux swap on i386.
           * Location depends on page size, so it definitely won't
           * work on non-x86 architectures (eg. on PPC, page
size is
           * 64K).  Also this avoids hibernated swap space: in those,
           * the signature is moved to a different location.
           *)
          try g#pread_device fs 10 4086L = "SWAPSPACE2"
          with _ -> false in

        if is_linux_x86_swap then (
          message (f_"Clearing Linux swap on %s") fs;

          (* Don't use mkswap.  Just preserve the header containing
           * the label, UUID and swap format version (libguestfs
           * mkswap may differ from guest's own).
           *)
          let header = g#pread_device fs 4096 0L in
          g#zero_device fs;
          if g#pwrite_device fs header 0L <> 4096 then
            error (f_"pwrite: short write restoring swap partition header")
        )
      )
    );

    g#umount_all ()
  )
```

```
) filesystems;

(* Fill unused space in volume groups. *)
let vgs = g#vgs () in
let vgs = Array.to_list vgs in
let vgs
= List.sort compare vgs in
List.iter (
  fun vg ->
    if not (List.mem vg ignores) then (
      let lvname = String.random8 () in
      let lvdev = "/dev/" ^ vg ^ "/" ^ lvname in

      let created =
        try g#lvcreate_free lvname vg 100; true
        with _ -> false in

      if created then (
        message (f_"Fill free space in volgroup %s with zero") vg;

        g#zero_device lvdev;
        g#sync ();
        g#lvremove lvdev
      )
    )
) vgs;

(* Don't need libguestfs now. *)
g#shutdown ();
g#close ();

(* Modify SIGINT handler (set first above) to just exit. *)
let do_sigint _ = exit 1 in
Sys.set_signal Sys.sigint (Sys.Signal_handle do_sigint);

(* Now run qemu-img convert which copies the overlay to the
 * destination and automatically does sparsification.
 *)
message ("Copy to destination and make sparse");

let cmd =
  sprintf "qemu-img convert -f qcow2 -O %s%s%s %s %s"
    (quote output_format)
    (if compress
then " -c" else "")
    (match option with
    | None -> ""
    | Some option -> " -o " ^ quote option)
```

```
    (quote overlaydisk) (quote (qemu_input_filename outdisk)) in
 if shell_command cmd <> 0 then
   error (f_"external command failed: %s") cmd;

 (* Finished. *)
 message (f_"Sparsify operation completed with no errors.");
 if not (quiet ()) then
   info (f_"Before deleting the old disk, carefully check that the \
          target disk boots and works correctly.")
(* virt-sparsify
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*)

(** This is the traditional virt-sparsify mode: We copy from a
   source disk to a destination disk. *)

type tmp_place =
| Directory of string | Block_device of string | Prebuilt_file of string

val run : string -> string
 -> Cmdline.check_t -> bool -> string option -> string option -> string list -> string option -> string option -> string
list -> Tools_utils.key_store -> unit
```

1.5274 github.com/cert-manager/cert-manager 1.18.2

1.5274.1 Available under license :

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1.5275 hwloc 2.10.0-1build1

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max
usage_usec 13481
user_usec 6740
system_usec 6740
some avg10=0.00 avg60=0.00 avg300=0.00 total=0
full avg10=0.00 avg60=0.00 avg300=0.00 total=0
populated 1
frozen 0

nr_descendants 0
nr_dying_descendants 0
1338
1339
1341
some avg10=0.00 avg60=0.00 avg300=0.00 total=1101
full avg10=0.00 avg60=0.00 avg300=0.00 total=1101
0
1734
1338
1734
1735
1737
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domain
ISC
usage_usec 11616
user_usec 5808
system_usec 5808
some avg10=0.00 avg60=0.00 avg300=0.00 total=0

1.5276 github.com/sigstore/fulcio 1.7.1

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1.5277 operator-framework-operator-manifest-tools 0.10.0

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1.5278 github.com/vbauerster/mpb/v8 8.10.2

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1.5280 dcraw 2:2:11.05.02-1.1build1

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The End

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As an open source project, Netpbm has been written and otherwise supported by
myriad people from all over. Most of them have made isolated contributions
such as a single program, a single new feature, or a single bug fix. To save
clerical effort, we do not list them here and instead refer you to the HISTORY
file. This file lists people who have made broad contributions that wouldn't
be well summarized by the HISTORY file.

Jef Poskanzer had the original idea for what is now Netpbm and wrote dozens of
programs and the original library code, as well as inventing and designing the
PNM formats and writing documentation. Jef's code contributions stopped in
1991 and because of rewrites, there is not much of Jef's code still remaining,
with what does remain being mostly obsolete. Nonetheless, the impact of that
original code is enormous, as everything in Netpbm today is derived in some
way from Jef's work.

Bryan Henderson has been maintaining Netpbm since 1999 and has written more
code,
in lines, than anyone else. Most of that is just rewriting old code in
a more maintainable style. But Bryan has also fixed more bugs than anyone,
since the normal bug reporting procedure is to tell the maintainer, and Bryan
normally fixes bugs reported that way himself. Bryan has also added many
features and whole programs at the suggestion of users. Bryan has written
most of the documentation, whether by writing manuals for programs whose
authors declined to do so or by rewriting manuals to make them more clear when
users had trouble using Netpbm.

Akira F Urushibata has made myriad contributions since 2004. Much of the PBM

processing code is his, as he rewrote existing programs to be much faster, in particular by using special bit-processing machine instructions. He also created the entire test framework and regression test suite and runs those regression tests and other tests regularly, and often develops fixes for the bugs found. Nobody else has done significant alpha testing of Netpbm except where developers have done it to test code they just wrote. This testing has turned up many bugs in code going all the way back to 1989.

Scott Pakin has contributed numerous programs over the years including the fairly significant work 'pamstereogram'.
Many of the source files for Pamx contain code written by or derived from code written by Jim Frost for his program Xloadimage. The files in which Frost has copyright contain Frost's name at the top. Frost licenses his copyright to the public as follows:

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The rest of the code was primarily written by Bryan Henderson, starting in 2006. Bryan and other authors have contributed their work to the public domain.

Here is a more or less complete list of people who contributed to the Xloadimage from which Pamx was derived. The list is from the README file in the Xloadimage source code:

Special thanks to the crew at the Boston University Graphics Lab for their assistance and sample images, and to bzs@std.com for his simple dithering algorithm (or what's left of it). Real special thanks to

Kirk L. Johnson (tuna@athena.mit.edu) for a very nice GIF loader and dithering routine, to Mark Snitily (zok!mark@apple.com) for 386/ix compatibility work, to Andreas Stolcke (stolcke@icsib12.berkeley.edu) for
miscellaneous bug fixes, to Anthony A. Datri (datri@convex.com) for a number of things, to Mark Moraes (moraes@cs.toronto.edu) for the slideshow colormap fix, to Gregg Townsend (gmt@cs.arizona.edu) for a suggested dithering routine and other fixes, to Brian Frost (B1F5814@RIGEL.TAMU.EDU) for changes for VMS, to Chip Horstman for G3 FAX support, to Deron Dann Johnson (dj@eng.sun.com) for fixing the RetainTemporary bug, to Tom Tatlow (tatlow@dash.enet.dec.com) for image rotation code, to Mark A. Horstman (mhorstm@sarek.sbc.com) for tilde expansion in .xloadimagerc files and virtual-root support in root.c, to Tim Roper (timr@labtam.labtam.oz.au), Graeme Gill (graeme@labtam.oz.au) for gamma correction and Utah RLE image support, Mark Majhor (uunet!sequent!markm) for FBM and MacPaint support, Ian MacPhedran (macphed@dvinci.usask.ca) for PGM and PPM support, Per Fogelstrom (pf@diab.se) for a fix to send.c, Hans J. Albertsson (hans@Sweden.Sun.COM) for cleaning up GIF aborting, Graham Hudspith (gwh@inmos.com)
for a geometry patch, Glenn P. Davis (davis@unidata.ucar.edu) for McIDAS areafile support, Keith S. Pickens (maxwell.nde.swri.edu!ksp) for fixing the RLE loader to work with the updated zio package, Mike Douglas (douglas@wilbur.coyote.trw.com) for normalization, Rod Johnson (johnson@wrl.epi.com) for speedup suggestions, Hal Peterson (hrp@cray.com) for his Imakefile fix, Matt Caprile (Matthew.Caprile@ec.bull.fr) for slideshow delay code, Bob Deroy (rwd@bucrsb.bu.edu) for mondo 24-bit Sun Rasterfile images that broke everything, Christos S. Zoulas (christo@ee.cornell.edu) for a first-cut 24-bit implementation, Gerald James Barnes (gjb@oasis.icl.stc.co.uk) for a first-cut forced-visual implementation, Michael Campanella (campanella@cvg.enet.dec.com) for more VMS changes, Kee Hinckley (nazgul@alfalfa.com) for robustness changes to the g3 and MacPaint loaders and the ZIO package, Tim Northrup (tim@brspyr1.brs.com) for PC Paintbrush and GEM image formats, Richard Weidner (richard@elroy.jpl.nasa.gov)
for lots of 24-bit testing, Eckhard Rueggeberg (erueg@cfgauss.uni-math.gwdg.de) for a better PCX loader, and any others whose names I've missed.

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```
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==========

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pnmtopng: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
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pnmtorle: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
pnmtosgi:
(A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
pnmtosir: (A) 1991 Marvin Landis
pnmtotiff: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
pnmtotiffcmyk: (C) 1999 Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtoxwd: (A) 1989-1991 Jef Poskanzer
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ppmchange: (A) 1991 Wilson H. Bent, Jr
ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmcolormask: (?) 2000 Bryan Henderson <bryanh@giraffe-data.com>
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ppmdist: (A) 1993 Dan Stromberg
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ppmrelief: (A) 1990 Wilson H. Bent, Jr
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ppmtobmp: (A) 1992 David W. Sanderson
ppmtoeyuv: (B) 1995 The Regents of the University of California
ppmtoicr: (A) 1990 Kanthan Pillay <svpillay@Princeton.EDU>
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(A) 1989 Jef Poskanzer
ppmtoleaf: (A) 1994 Bill O'Donnell
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ppmtoneo: (D) 2001 Teemu Hukkanen <tjhukkan@iki.fi>
ppmtopcx: (B) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
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ppmtowinicon: (A) 2000 Lee Benfield <lee@recoil.org>
ppmtoxpm:
(A) 1990 Mark W. Snitily
ppmtoyuv: (A) 1987-1991 Abekas Video Systems Inc, DHD PostImage Inc
ppmtoyuvsplit: (A) 1993 Andre Beck <Andre_Beck@IRS.Inf.TU-Dresden.de>
ppmtv: (A) 1993 Frank Neumann
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qrttoppm: (A) 1989 Jef Poskanzer
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The End

http://www.spinwardstars.com/frontier/fal.html
As an open source project, Netpbm has been written and otherwise supported by
myriad people from all over. Most of them have made isolated contributions
such as a single program, a single new feature, or a single bug fix. To save
clerical effort, we do not list them here and instead refer you to the HISTORY
file. This file lists people who have made broad contributions that wouldn't
be well summarized by the HISTORY file.

Jef Poskanzer had the original idea for what is now Netpbm and wrote dozens of
programs and the original library code, as well as inventing and designing the
PNM formats and writing documentation. Jef's code contributions stopped in
1991 and because of rewrites, there is not much of Jef's code still remaining,
with what does remain being mostly obsolete. Nonetheless, the impact of that
original code is enormous, as everything in Netpbm today is derived in some
way from Jef's work.

Bryan Henderson has been maintaining Netpbm since 1999 and has written more

code,
in lines, than anyone else. Most of that is just rewriting old code in
a more maintainable style. But Bryan has also fixed more bugs than anyone,
since the normal bug reporting procedure is to tell the maintainer, and Bryan
normally fixes bugs reported that way himself. Bryan has also added many
features and whole programs at the suggestion of users. Bryan has written
most of the documentation, whether by writing manuals for programs whose
authors declined to do so or by rewriting manuals to make them more clear when
users had trouble using Netpbm.

Akira F Urushibata has made myriad contributions since 2004. Much of the PBM
processing code is his, as he rewrote existing programs to be much faster, in
particular by using special bit-processing machine instructions. He also
created the entire test framework and regression test suite and runs those
regression tests and other tests regularly, and often develops fixes for the
bugs found. Nobody else has done significant alpha testing
of Netpbm except
where developers have done it to test code they just wrote. This testing has
turned up many bugs in code going all the way back to 1989.

Scott Pakin has contributed numerous programs over the years including the
fairly significant work 'pamstereogram'.
Many of the source files for Pamx contain code written by or derived
from code written by Jim Frost for his program Xloadimage. The files
in which Frost has copyright contain Frost's name at the top. Frost
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The rest of the code was primarily written by Bryan Henderson,

starting in 2006. Bryan and other authors have contributed their work
to the public domain.

Here is a more or less complete list of people who contributed to
the Xloadimage from which Pamx was derived. The list is from the README
file in the Xloadimage source code:

Special thanks to the crew at the Boston University Graphics Lab for
their assistance and sample images, and to bzs@std.com for his simple
dithering algorithm (or what's left of it). Real special thanks to
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compatibility work, to Andreas Stolcke (stolcke@icsib12.berkeley.edu)
for
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for a number of things, to Mark Moraes (moraes@cs.toronto.edu) for
the slideshow colormap fix, to Gregg Townsend (gmt@cs.arizona.edu) for
a suggested dithering routine and other fixes, to Brian Frost
(B1F5814@RIGEL.TAMU.EDU) for changes for VMS, to Chip Horstman for G3
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root.c, to Tim Roper (timr@labtam.labtam.oz.au), Graeme Gill
(graeme@labtam.oz.au) for gamma correction and Utah RLE image support,
Mark Majhor (uunet!sequent!markm) for FBM and MacPaint support, Ian
MacPhedran (macphed@dvinci.usask.ca) for PGM and PPM support, Per
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(hans@Sweden.Sun.COM) for cleaning up GIF aborting, Graham Hudspith
(gwh@inmos.com)
for a geometry patch, Glenn P. Davis
(davis@unidata.ucar.edu) for McIDAS areafile support, Keith S. Pickens
(maxwell.nde.swri.edu!ksp) for fixing the RLE loader to work with the
updated zio package, Mike Douglas (douglas@wilbur.coyote.trw.com) for
normalization, Rod Johnson (johnson@wrl.epi.com) for speedup
suggestions, Hal Peterson (hrp@cray.com) for his Imakefile fix, Matt
Caprile (Matthew.Caprile@ec.bull.fr) for slideshow delay code, Bob
Deroy (rwd@bucrsb.bu.edu) for mondo 24-bit Sun Rasterfile images that
broke everything, Christos S. Zoulas (christo@ee.cornell.edu) for a
first-cut 24-bit implementation, Gerald James Barnes
(gjb@oasis.icl.stc.co.uk) for a first-cut forced-visual
implementation, Michael Campanella (campanella@cvg.enet.dec.com) for
more VMS changes, Kee Hinckley (nazgul@alfalfa.com) for robustness
changes to the g3 and MacPaint loaders and the ZIO package, Tim
Northrup (tim@brspyr1.brs.com) for PC Paintbrush and GEM image
formats, Richard Weidner (richard@elroy.jpl.nasa.gov)

for lots of
24-bit testing, Eckhard Rueggeberg (erueg@cfgauss.uni-math.gwdg.de)
for a better PCX loader, and any others whose names I've missed.

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eyuvtoppm: (B) 1995 The Regents of the University of California
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fitstopnm: (A) 1989 Jef Poskanzer
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g3topbm: (A) 1989 Paul Haeberli <paul@manray.sgi.com>
gemtopbm: (A) 1988 Diomidis D. Spinellis
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palmtopnm: (A) 1995-2000 Ian Goldberg, Bill Janssen
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pamfile: (A) 1991 Jef Poskanzer
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pbmclean: (A) 1989-1990 Jef Poskanzer, Angus Duggan
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(A) 1990 Jef Poskanzer, John Tiller <tiller@galois.msfc.nasa.gov>
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pjtoppm: (A) 1990 Christos Zoulas <christos@ee.cornell.edu>
pngtopnm: (A) 1995-1998 Alexander Lehmann <alex@hal.rhein-main.de>, Willem van Schaik <willem@schaik.com>
pnmalias: (A) 1992 Alberto Accomazzi, Smithsonian Astrophysical Observatory
pnmarith: (A) 1989-1991 Jef Poskanzer
pnmcat: (A) 1989-1991 Jef Poskanzer
pnmcomp: (A) 1992 David Koblas
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(A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
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pnmtotiff: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
pnmtotiffcmyk: (C) 1999 Andrew Cooke (Jara Software) <jara@andrewcooke.free-online.co.uk>
pnmtoxwd: (A) 1989-1991 Jef Poskanzer
ppm3d: (A) 1989 Jef Poskanzer
ppmbrighten: (A) 1989-1990 Jef Poskanzer, Brian Moffet
ppmchange: (A) 1991 Wilson H. Bent, Jr
ppmcie: (H) 1995 John Walker <kelvin@fourmilab.ch>
ppmcolormask: (?) 2000 Bryan Henderson <bryanh@giraffe-data.com>
ppmdim: (A) 1993 Frank Neumann
ppmdist: (A) 1993 Dan Stromberg
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ppmflash: (A) 1993 Frank Neumann
ppmforge: (H) 1989 John Walker <kelvin@autodesk.com>
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ppmntsc: (E) 1993 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>

ppmpat: (A) 1989-1991 Jef Poskanzer
ppmquant: (A) 1989-1991 Jef Poskanzer
ppmquantall: (A) 1991 Jef Poskanzer
ppmqvga: (F) 1991-1992 Bill Davidsen, Lyle Rains <lrains@netcom.com>
ppmrainbow: (A) 2001 Arjen Bax, Bryan Henderson
ppmrelief: (A) 1990 Wilson H. Bent, Jr
ppmshadow: (G) 1997 John Walker <kelvin@fourmilab.ch>
ppmshift: (A) 1993 Frank Neumann
ppmspread: (A) 1993 Frank Neumann
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ppmtobmp: (A) 1992 David W. Sanderson
ppmtoeyuv: (B) 1995 The Regents of the University of California
ppmtoicr: (A) 1990 Kanthan Pillay <svpillay@Princeton.EDU>
ppmtoilbm:
(A) 1989 Jef Poskanzer
ppmtoleaf: (A) 1994 Bill O'Donnell
ppmtolj: (A) 2000 Jonathan Melvin <jonathan.melvin@heywood.co.uk>
ppmtomap: (A) 1989 Jef Poskanzer
ppmtomitsu: (A) 1992-1993 S.Petra Zeidler
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ppmtopcx: (B) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
ppmtopgm: (A) 1989 Jef Poskanzer
ppmtopi1: (A) 1991 Jef Poskanzer and Steve Belczyk
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ppmtouil: (A) 1990 Mark W. Snitily, Jef Poskanzer
ppmtowinicon: (A) 2000 Lee Benfield <lee@recoil.org>
ppmtoxpm:
(A) 1990 Mark W. Snitily
ppmtoyuv: (A) 1987-1991 Abekas Video Systems Inc, DHD PostImage Inc
ppmtoyuvsplit: (A) 1993 Andre Beck <Andre_Beck@IRS.Inf.TU-Dresden.de>
ppmtv: (A) 1993 Frank Neumann
psidtopgm: (A) 1989 Jef Poskanzer
pstopnm: (I) 1992 Smithsonian Astrophysical Observatory, Alberto Accomazzi
qrttoppm: (A) 1989 Jef Poskanzer
rasttopnm: (A) 1989-1991 Jef Poskanzer
rawtopgm: (A) 1989 Jef Poskanzer
rawtoppm: (A) 1991 Jef Poskanzer
rgb3toppm: (A) 1991 Jef Poskanzer
rletopnm: (E) 1994 Minnesota Supercomputer Center, Inc, Wes Barris <wes@msc.edu>
sbigtopgm: (A) 1998 John Walker
sgitopnm: (A) 1994 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
sirtopnm: (A) 1991 Marvin Landis

sldtoppm: (H) 1991 John Walker <kelvin@autodesk.com>
spctoppm: (A) 1991 Jef Poskanzer and Steve Belczyk
sputoppm: (A) 1991 Jef
Poskanzer and Steve Belczyk
tgatoppm: (A) 1989 Jef Poskanzer
tifftopnm: (A) 1990 Sun Microsystems, Inc, Jef Poskanzer
thinkjettopbm: (A) 2001 W. Eric Norum <eric.norum@usask.ca>
wbmptopbm: (A) 1999 Terje Sannum <terje@looplab.com>
winicontoppm: (A) 2000 Lee Benfield <lee@recoil.org>
xbmtopbm: (A) 1988 Jef Poskanzer
ximtoppm: (A) 1991 Jef Poskanzer
xpmtoppm: (A) 1991 Jef Poskanzer
xvminitoppm: (A) 1993 Ingo Wilken <Ingo.Wilken@informatik.uni-oldenburg.de>
xwdtopnm: (A) 1989-1991 Jef Poskanzer
ybmtopbm: (A) 1988 Jamie Zawinski and Jef Poskanzer
yuvsplittoppm: (A) 1993 Marcel Wijkstra <wijkstra@fwi.uva.nl>
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```
@macro copynext{}
@vskip 20pt plus 1fil
@end macro

@macro copyrightstart{}
@end macro

@macro copyrightend{}
@end macro


@comment  node-name,  next,  previous,  up

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GSS-API mechglue layer.

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credential cache.
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vis.c in libroken

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in
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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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Windows support

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lib/hcrypto/test_dh.c

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1.5292 containerd-stargz-snapshotter-ipfs 0.16.3

1.5292.1 Available under license :

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1.5293 cloud-utils 0.32-22-g45fe84a5-0ubuntu1

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1.5297 rootlesskit 2.3.5

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1.5309 libnpmfund 7.0.6

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1.5310 node.js 23.11.1-1nodesource1

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```
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* WARNING: do not edit!
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*
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*/



#ifndef OPENSSL_UI_H
# define OPENSSL_UI_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_UI_H
# endif

# include <openssl/opensslconf.h>

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  include <openssl/crypto.h>
# endif
# include <openssl/safestack.h>
# include <openssl/pem.h>
# include <openssl/types.h>
```

```
# include <openssl/uierr.h>

/* For compatibility reasons, the macro OPENSSL_NO_UI is currently retained */
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  ifdef OPENSSL_NO_UI_CONSOLE
#   define OPENSSL_NO_UI
#  endif
# endif

# ifdef  __cplusplus
extern
 "C" {
# endif

/*
* All the following functions return -1 or NULL on error and in some cases
* (UI_process()) -2 if interrupted or in some other way cancelled. When
* everything is fine, they return 0, a positive value or a non-NULL pointer,
* all depending on their purpose.
*/

/* Creators and destructor.   */
UI *UI_new(void);
UI *UI_new_method(const UI_METHOD *method);
void UI_free(UI *ui);

/*-
  The following functions are used to add strings to be printed and prompt
  strings to prompt for data.  The names are UI_{add,dup}_<function>_string
  and UI_{add,dup}_input_boolean.

  UI_{add,dup}_<function>_string have the following meanings:
      add     add a text or prompt string.  The pointers given to these
              functions are used verbatim, no copying is done.
      dup     make a copy of the text or prompt string, then add the copy
              to the collection of strings in the user interface.
      <function>
              The function
 is a name for the functionality that the given
              string shall be used for.  It can be one of:
                    input   use the string as data prompt.
                    verify  use the string as verification prompt.  This
                            is used to verify a previous input.
                    info    use the string for informational output.
                    error   use the string for error output.
  Honestly, there's currently no difference between info and error for the
  moment.
```

```
 UI_{add,dup}_input_boolean have the same semantics for "add" and "dup",
 and are typically used when one wants to prompt for a yes/no response.

 All of the functions in this group take a UI and a prompt string.
 The string input and verify addition functions also take a flag argument,
 a buffer for the result to end up with, a minimum input size and a maximum
 input size (the result buffer MUST be large enough to be able to contain
 the
maximum number of characters).  Additionally, the verify addition
 functions takes another buffer to compare the result against.
 The boolean input functions take an action description string (which should
 be safe to ignore if the expected user action is obvious, for example with
 a dialog box with an OK button and a Cancel button), a string of acceptable
 characters to mean OK and to mean Cancel.  The two last strings are checked
 to make sure they don't have common characters.  Additionally, the same
 flag argument as for the string input is taken, as well as a result buffer.
 The result buffer is required to be at least one byte long.  Depending on
 the answer, the first character from the OK or the Cancel character strings
 will be stored in the first byte of the result buffer.  No NUL will be
 added, so the result is *not* a string.

 On success, the all return an index of the added information.  That index
 is useful when retrieving results with UI_get0_result().
 */
int UI_add_input_string(UI *ui, const char *prompt, int flags,
                        char *result_buf, int minsize, int maxsize);
int UI_dup_input_string(UI *ui, const char *prompt, int flags,
                        char *result_buf, int minsize, int maxsize);
int UI_add_verify_string(UI *ui, const char *prompt, int flags,
                         char *result_buf, int minsize, int maxsize,
                         const char *test_buf);
int UI_dup_verify_string(UI *ui, const char *prompt, int flags,
                         char *result_buf, int minsize, int maxsize,
                         const char *test_buf);
int UI_add_input_boolean(UI *ui, const char *prompt, const char *action_desc,
                         const char *ok_chars, const char *cancel_chars,
                         int flags, char *result_buf);
int UI_dup_input_boolean(UI *ui, const char *prompt, const char *action_desc,
                         const char *ok_chars, const char *cancel_chars,
                          int flags, char *result_buf);
int UI_add_info_string(UI *ui, const char *text);
int UI_dup_info_string(UI *ui, const char *text);
int UI_add_error_string(UI *ui, const char *text);
int UI_dup_error_string(UI *ui, const char *text);

/* These are the possible flags.  They can be or'ed together. */
/* Use to have echoing of input */
# define UI_INPUT_FLAG_ECHO             0x01
```

```
/*
* Use a default password.  Where that password is found is completely up to
* the application, it might for example be in the user data set with
* UI_add_user_data().  It is not recommended to have more than one input in
* each UI being marked with this flag, or the application might get
* confused.
*/
# define UI_INPUT_FLAG_DEFAULT_PWD       0x02

/*-
* The user of these routines may want to define flags of their own.  The core
* UI won't look at those, but will pass them on to the method routines.  They
* must use higher bits so they don't get confused with the UI bits above.
 * UI_INPUT_FLAG_USER_BASE tells which is the lowest bit to use.  A good
* example of use is this:
*
*    #define MY_UI_FLAG1       (0x01 << UI_INPUT_FLAG_USER_BASE)
*
*/
# define UI_INPUT_FLAG_USER_BASE 16

/*-
* The following function helps construct a prompt.
* phrase_desc is a textual short description of the phrase to enter,
* for example "pass phrase", and
* object_name is the name of the object
* (which might be a card name or a file name) or NULL.
* The returned string shall always be allocated on the heap with
* OPENSSL_malloc(), and need to be free'd with OPENSSL_free().
*
* If the ui_method doesn't contain a pointer to a user-defined prompt
* constructor, a default string is built, looking like this:
*
*       "Enter {phrase_desc} for {object_name}:"
*
* So, if phrase_desc has the value "pass phrase" and object_name has
* the value "foo.key", the resulting string is:
*
*       "Enter pass phrase for foo.key:"
*/
char *UI_construct_prompt(UI *ui_method,
                          const char *phrase_desc, const char *object_name);

/*
* The following function is used to store a pointer to user-specific data.
* Any previous such pointer will be returned and replaced.
*
* For callback purposes, this function makes a lot more sense than using
```

```
* ex_data, since the latter requires that different parts of OpenSSL or
* applications share the same ex_data index.
*
* Note that the UI_OpenSSL() method completely ignores the user data. Other
* methods may not, however.
*/
void *UI_add_user_data(UI *ui, void *user_data);
/*
* Alternatively, this function is used to duplicate the user data.
* This uses the duplicator method function.  The destroy function will
* be used to free the user data in this case.
*/
int UI_dup_user_data(UI *ui, void *user_data);
/* We need a user data retrieving function as well.  */
void *UI_get0_user_data(UI *ui);

/* Return the result associated with a prompt given with the index i. */
const char *UI_get0_result(UI
 *ui, int i);
int UI_get_result_length(UI *ui, int i);

/* When all strings have been added, process the whole thing. */
int UI_process(UI *ui);

/*
* Give a user interface parameterised control commands.  This can be used to
* send down an integer, a data pointer or a function pointer, as well as be
* used to get information from a UI.
*/
int UI_ctrl(UI *ui, int cmd, long i, void *p, void (*f) (void));

/* The commands */
/*
* Use UI_CONTROL_PRINT_ERRORS with the value 1 to have UI_process print the
* OpenSSL error stack before printing any info or added error messages and
* before any prompting.
*/
# define UI_CTRL_PRINT_ERRORS           1
/*
* Check if a UI_process() is possible to do again with the same instance of
* a user interface.  This makes UI_ctrl() return 1 if it is redoable, and 0
* if not.
*/
# define UI_CTRL_IS_REDOABLE            2

/* Some methods may use extra data */
# define UI_set_app_data(s,arg)         UI_set_ex_data(s,0,arg)
# define UI_get_app_data(s)
```

```
        UI_get_ex_data(s,0)

# define UI_get_ex_new_index(l, p, newf, dupf, freef) \
  CRYPTO_get_ex_new_index(CRYPTO_EX_INDEX_UI, l, p, newf, dupf, freef)
int UI_set_ex_data(UI *r, int idx, void *arg);
void *UI_get_ex_data(const UI *r, int idx);

/* Use specific methods instead of the built-in one */
void UI_set_default_method(const UI_METHOD *meth);
const UI_METHOD *UI_get_default_method(void);
const UI_METHOD *UI_get_method(UI *ui);
const UI_METHOD *UI_set_method(UI *ui, const UI_METHOD *meth);

# ifndef OPENSSL_NO_UI_CONSOLE

/* The method with all the built-in thingies */
UI_METHOD *UI_OpenSSL(void);

# endif

/*
* NULL method.  Literally does nothing, but may serve as a placeholder
* to avoid internal default.
*/
const UI_METHOD *UI_null(void);

/* ---------- For method writers ---------- */
/*-
  A method contains a number of functions that implement the low level
  of the User Interface.  The functions are:

      an opener       This function starts a
 session, maybe by opening
                  a channel to a tty, or by opening a window.
      a writer        This function is called to write a given string,
                  maybe to the tty, maybe as a field label in a
                  window.
      a flusher       This function is called to flush everything that
                  has been output so far.  It can be used to actually
                  display a dialog box after it has been built.
      a reader        This function is called to read a given prompt,
                  maybe from the tty, maybe from a field in a
                  window.  Note that it's called with all string
                  structures, not only the prompt ones, so it must
                  check such things itself.
      a closer        This function closes the session, maybe by closing
                  the channel to the tty, or closing the window.
```

```
 All these functions are expected
to return:

     0       on error.
     1       on success.
     -1       on out-of-band events, for example if some prompting has
             been canceled (by pressing Ctrl-C, for example).  This is
             only checked when returned by the flusher or the reader.

 The way this is used, the opener is first called, then the writer for all
 strings, then the flusher, then the reader for all strings and finally the
 closer.  Note that if you want to prompt from a terminal or other command
 line interface, the best is to have the reader also write the prompts
 instead of having the writer do it.  If you want to prompt from a dialog
 box, the writer can be used to build up the contents of the box, and the
 flusher to actually display the box and run the event loop until all data
 has been given, after which the reader only grabs the given data and puts
 them back into the UI strings.

 All method functions take a UI as argument.  Additionally,
the writer and
 the reader take a UI_STRING.
*/

/*
* The UI_STRING type is the data structure that contains all the needed info
* about a string or a prompt, including test data for a verification prompt.
*/
typedef struct ui_string_st UI_STRING;

SKM_DEFINE_STACK_OF_INTERNAL(UI_STRING, UI_STRING, UI_STRING)
#define sk_UI_STRING_num(sk) OPENSSL_sk_num(ossl_check_const_UI_STRING_sk_type(sk))
#define sk_UI_STRING_value(sk, idx) ((UI_STRING
*)OPENSSL_sk_value(ossl_check_const_UI_STRING_sk_type(sk), (idx)))
#define sk_UI_STRING_new(cmp) ((STACK_OF(UI_STRING)
*)OPENSSL_sk_new(ossl_check_UI_STRING_compfunc_type(cmp)))
#define sk_UI_STRING_new_null() ((STACK_OF(UI_STRING) *)OPENSSL_sk_new_null())
#define sk_UI_STRING_new_reserve(cmp, n) ((STACK_OF(UI_STRING)
*)OPENSSL_sk_new_reserve(ossl_check_UI_STRING_compfunc_type(cmp), (n)))
#define sk_UI_STRING_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_UI_STRING_sk_type(sk), (n))
#define sk_UI_STRING_free(sk) OPENSSL_sk_free(ossl_check_UI_STRING_sk_type(sk))
#define
 sk_UI_STRING_zero(sk) OPENSSL_sk_zero(ossl_check_UI_STRING_sk_type(sk))
#define sk_UI_STRING_delete(sk, i) ((UI_STRING *)OPENSSL_sk_delete(ossl_check_UI_STRING_sk_type(sk),
(i)))
#define sk_UI_STRING_delete_ptr(sk, ptr) ((UI_STRING
*)OPENSSL_sk_delete_ptr(ossl_check_UI_STRING_sk_type(sk), ossl_check_UI_STRING_type(ptr)))
#define sk_UI_STRING_push(sk, ptr) OPENSSL_sk_push(ossl_check_UI_STRING_sk_type(sk),
```

```
ossl_check_UI_STRING_type(ptr))
#define sk_UI_STRING_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_UI_STRING_sk_type(sk),
ossl_check_UI_STRING_type(ptr))
#define sk_UI_STRING_pop(sk) ((UI_STRING *)OPENSSL_sk_pop(ossl_check_UI_STRING_sk_type(sk)))
#define sk_UI_STRING_shift(sk) ((UI_STRING *)OPENSSL_sk_shift(ossl_check_UI_STRING_sk_type(sk)))
#define sk_UI_STRING_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_UI_STRING_sk_type(sk),ossl_check_UI_STRING_freefunc_type(freefunc))
#define sk_UI_STRING_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_UI_STRING_sk_type(sk),
 ossl_check_UI_STRING_type(ptr), (idx))
#define sk_UI_STRING_set(sk, idx, ptr) ((UI_STRING *)OPENSSL_sk_set(ossl_check_UI_STRING_sk_type(sk),
(idx), ossl_check_UI_STRING_type(ptr)))
#define sk_UI_STRING_find(sk, ptr) OPENSSL_sk_find(ossl_check_UI_STRING_sk_type(sk),
ossl_check_UI_STRING_type(ptr))
#define sk_UI_STRING_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_UI_STRING_sk_type(sk),
ossl_check_UI_STRING_type(ptr))
#define sk_UI_STRING_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_UI_STRING_sk_type(sk),
ossl_check_UI_STRING_type(ptr), pnum)
#define sk_UI_STRING_sort(sk) OPENSSL_sk_sort(ossl_check_UI_STRING_sk_type(sk))
#define sk_UI_STRING_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_UI_STRING_sk_type(sk))
#define sk_UI_STRING_dup(sk) ((STACK_OF(UI_STRING)
*)OPENSSL_sk_dup(ossl_check_const_UI_STRING_sk_type(sk)))
#define sk_UI_STRING_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(UI_STRING)
*)OPENSSL_sk_deep_copy(ossl_check_const_UI_STRING_sk_type(sk),
ossl_check_UI_STRING_copyfunc_type(copyfunc),
 ossl_check_UI_STRING_freefunc_type(freefunc)))
#define sk_UI_STRING_set_cmp_func(sk, cmp)
((sk_UI_STRING_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_UI_STRING_sk_type(sk),
ossl_check_UI_STRING_compfunc_type(cmp)))


/*
* The different types of strings that are currently supported. This is only
* needed by method authors.
*/
enum UI_string_types {
  UIT_NONE = 0,
  UIT_PROMPT,              /* Prompt for a string */
  UIT_VERIFY,              /* Prompt for a string and verify */
  UIT_BOOLEAN,             /* Prompt for a yes/no response */
  UIT_INFO,                /* Send info to the user */
  UIT_ERROR                /* Send an error message to the user */
};

/* Create and manipulate methods */
UI_METHOD *UI_create_method(const char *name);
void UI_destroy_method(UI_METHOD *ui_method);
int UI_method_set_opener(UI_METHOD *method, int (*opener) (UI *ui));
int UI_method_set_writer(UI_METHOD *method,
```

```
        int (*writer) (UI *ui, UI_STRING *uis));
int UI_method_set_flusher(UI_METHOD *method, int (*flusher) (UI *ui));
int UI_method_set_reader(UI_METHOD *method,
                         int (*reader) (UI *ui, UI_STRING *uis));
int UI_method_set_closer(UI_METHOD *method, int (*closer) (UI *ui));
int UI_method_set_data_duplicator(UI_METHOD *method,
                                  void *(*duplicator) (UI *ui, void *ui_data),
                                  void (*destructor)(UI *ui, void *ui_data));
int UI_method_set_prompt_constructor(UI_METHOD *method,
                                     char *(*prompt_constructor) (UI *ui,
                                                                  const char
                                                                  *phrase_desc,
                                                                  const char
                                                                  *object_name));
int UI_method_set_ex_data(UI_METHOD *method,
 int idx, void *data);
int (*UI_method_get_opener(const UI_METHOD *method)) (UI *);
int (*UI_method_get_writer(const UI_METHOD *method)) (UI *, UI_STRING *);
int (*UI_method_get_flusher(const UI_METHOD *method)) (UI *);
int (*UI_method_get_reader(const UI_METHOD *method)) (UI *, UI_STRING *);
int (*UI_method_get_closer(const UI_METHOD *method)) (UI *);
char *(*UI_method_get_prompt_constructor(const UI_METHOD *method))
   (UI *, const char *, const char *);
void *(*UI_method_get_data_duplicator(const UI_METHOD *method)) (UI *, void *);
void (*UI_method_get_data_destructor(const UI_METHOD *method)) (UI *, void *);
const void *UI_method_get_ex_data(const UI_METHOD *method, int idx);

/*
* The following functions are helpers for method writers to access relevant
* data from a UI_STRING.
*/

/* Return type of the UI_STRING */
enum UI_string_types UI_get_string_type(UI_STRING *uis);
/* Return input flags of the UI_STRING */
int UI_get_input_flags(UI_STRING *uis);
/* Return the actual string
 to output (the prompt, info or error) */
const char *UI_get0_output_string(UI_STRING *uis);
/*
* Return the optional action string to output (the boolean prompt
* instruction)
*/
const char *UI_get0_action_string(UI_STRING *uis);
/* Return the result of a prompt */
const char *UI_get0_result_string(UI_STRING *uis);
int UI_get_result_string_length(UI_STRING *uis);
```

```
/*
* Return the string to test the result against.  Only useful with verifies.
*/
const char *UI_get0_test_string(UI_STRING *uis);
/* Return the required minimum size of the result */
int UI_get_result_minsize(UI_STRING *uis);
/* Return the required maximum size of the result */
int UI_get_result_maxsize(UI_STRING *uis);
/* Set the result of a UI_STRING. */
int UI_set_result(UI *ui, UI_STRING *uis, const char *result);
int UI_set_result_ex(UI *ui, UI_STRING *uis, const char *result, int len);

/* A couple of popular utility functions */
int UI_UTIL_read_pw_string(char *buf, int length, const char *prompt,

               int verify);
int UI_UTIL_read_pw(char *buf, char *buff, int size, const char *prompt,
                 int verify);
UI_METHOD *UI_UTIL_wrap_read_pem_callback(pem_password_cb *cb, int rwflag);


# ifdef  __cplusplus
}
# endif
#endif
#ifndef SRC_PERMISSION_WORKER_PERMISSION_H_
#define SRC_PERMISSION_WORKER_PERMISSION_H_

#if defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS

#include <vector>
#include "permission/permission_base.h"

namespace node {

namespace permission {

class WorkerPermission final : public PermissionBase {
public:
 void Apply(Environment* env,
           const std::vector<std::string>& allow,
           PermissionScope scope) override;
 bool is_granted(Environment* env,
                PermissionScope perm,
                const std::string_view& param = "") const override;

private:
 bool deny_all_;
```

```
};

}  // namespace permission

}  // namespace node

#endif  // defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS
#endif  // SRC_PERMISSION_WORKER_PERMISSION_H_
#ifndef SRC_PERMISSION_CHILD_PROCESS_PERMISSION_H_
#define SRC_PERMISSION_CHILD_PROCESS_PERMISSION_H_

#if defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS

#include <vector>
#include "permission/permission_base.h"

namespace node {

namespace permission {

class ChildProcessPermission final : public PermissionBase {
public:
 void Apply(Environment* env,
            const std::vector<std::string>& allow,
            PermissionScope scope) override;
 bool is_granted(Environment* env,
                 PermissionScope perm,
                 const std::string_view& param = "") const override;

private:
 bool deny_all_;
};

}  // namespace permission

}  // namespace node

#endif  // defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS
#endif  // SRC_PERMISSION_CHILD_PROCESS_PERMISSION_H_
```

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"""
/*
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*
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* this file except in compliance with the License. You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

```
#ifndef OPENSSL_ERR_H
# define OPENSSL_ERR_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_ERR_H
# endif
```

```
# include <openssl/e_os2.h>

# ifndef OPENSSL_NO_STDIO
#  include <stdio.h>
#  include <stdlib.h>
# endif

# include <openssl/types.h>
# include <openssl/bio.h>
# include <openssl/lhash.h>
# include <openssl/cryptoerr_legacy.h>

#ifdef  __cplusplus
extern "C" {
#endif

# ifndef OPENSSL_NO_DEPRECATED_3_0
#  ifndef OPENSSL_NO_FILENAMES
#   define ERR_PUT_error(l,f,r,fn,ln)      ERR_put_error(l,f,r,fn,ln)
#  else
#   define ERR_PUT_error(l,f,r,fn,ln)      ERR_put_error(l,f,r,NULL,0)
#  endif
# endif

# include
 <limits.h>
# include <errno.h>

# define ERR_TXT_MALLOCED        0x01
# define ERR_TXT_STRING          0x02

# if !defined(OPENSSL_NO_DEPRECATED_3_0) || defined(OSSL_FORCE_ERR_STATE)
#  define ERR_FLAG_MARK           0x01
#  define ERR_FLAG_CLEAR          0x02

#  define ERR_NUM_ERRORS  16
struct err_state_st {
   int err_flags[ERR_NUM_ERRORS];
   int err_marks[ERR_NUM_ERRORS];
   unsigned long err_buffer[ERR_NUM_ERRORS];
   char *err_data[ERR_NUM_ERRORS];
   size_t err_data_size[ERR_NUM_ERRORS];
   int err_data_flags[ERR_NUM_ERRORS];
   char *err_file[ERR_NUM_ERRORS];
   int err_line[ERR_NUM_ERRORS];
   char *err_func[ERR_NUM_ERRORS];
   int top, bottom;
```

```
};
# endif

/* library */
# define ERR_LIB_NONE           1
# define ERR_LIB_SYS            2
# define ERR_LIB_BN             3
# define ERR_LIB_RSA            4
# define ERR_LIB_DH             5
# define ERR_LIB_EVP            6
# define ERR_LIB_BUF            7
# define ERR_LIB_OBJ            8
# define ERR_LIB_PEM
            9
# define ERR_LIB_DSA            10
# define ERR_LIB_X509           11
/* #define ERR_LIB_METH         12 */
# define ERR_LIB_ASN1           13
# define ERR_LIB_CONF           14
# define ERR_LIB_CRYPTO         15
# define ERR_LIB_EC             16
# define ERR_LIB_SSL            20
/* #define ERR_LIB_SSL23        21 */
/* #define ERR_LIB_SSL2         22 */
/* #define ERR_LIB_SSL3         23 */
/* #define ERR_LIB_RSAREF       30 */
/* #define ERR_LIB_PROXY        31 */
# define ERR_LIB_BIO            32
# define ERR_LIB_PKCS7          33
# define ERR_LIB_X509V3         34
# define ERR_LIB_PKCS12         35
# define ERR_LIB_RAND           36
# define ERR_LIB_DSO            37
# define ERR_LIB_ENGINE         38
# define ERR_LIB_OCSP           39
# define ERR_LIB_UI             40
# define ERR_LIB_COMP           41
# define ERR_LIB_ECDSA          42
# define ERR_LIB_ECDH           43
# define ERR_LIB_OSSL_STORE     44
# define ERR_LIB_FIPS
   45
# define ERR_LIB_CMS            46
# define ERR_LIB_TS             47
# define ERR_LIB_HMAC           48
/* # define ERR_LIB_JPAKE       49 */
# define ERR_LIB_CT             50
# define ERR_LIB_ASYNC          51
```

```
# define ERR_LIB_KDF            52
# define ERR_LIB_SM2            53
# define ERR_LIB_ESS            54
# define ERR_LIB_PROP           55
# define ERR_LIB_CRMF           56
# define ERR_LIB_PROV           57
# define ERR_LIB_CMP            58
# define ERR_LIB_OSSL_ENCODER    59
# define ERR_LIB_OSSL_DECODER    60
# define ERR_LIB_HTTP           61

# define ERR_LIB_USER           128

# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define ASN1err(f, r) ERR_raise_data(ERR_LIB_ASN1, (r), NULL)
#  define ASYNCerr(f, r) ERR_raise_data(ERR_LIB_ASYNC, (r), NULL)
#  define BIOerr(f, r) ERR_raise_data(ERR_LIB_BIO, (r), NULL)
#  define BNerr(f, r)  ERR_raise_data(ERR_LIB_BN, (r), NULL)
#  define BUFerr(f, r) ERR_raise_data(ERR_LIB_BUF, (r), NULL)
#  define CMPerr(f, r) ERR_raise_data(ERR_LIB_CMP,
 (r), NULL)
#  define CMSerr(f, r) ERR_raise_data(ERR_LIB_CMS, (r), NULL)
#  define COMPerr(f, r) ERR_raise_data(ERR_LIB_COMP, (r), NULL)
#  define CONFerr(f, r) ERR_raise_data(ERR_LIB_CONF, (r), NULL)
#  define CRMFerr(f, r) ERR_raise_data(ERR_LIB_CRMF, (r), NULL)
#  define CRYPTOerr(f, r) ERR_raise_data(ERR_LIB_CRYPTO, (r), NULL)
#  define CTerr(f, r) ERR_raise_data(ERR_LIB_CT, (r), NULL)
#  define DHerr(f, r)  ERR_raise_data(ERR_LIB_DH, (r), NULL)
#  define DSAerr(f, r) ERR_raise_data(ERR_LIB_DSA, (r), NULL)
#  define DSOerr(f, r) ERR_raise_data(ERR_LIB_DSO, (r), NULL)
#  define ECDHerr(f, r) ERR_raise_data(ERR_LIB_ECDH, (r), NULL)
#  define ECDSAerr(f, r) ERR_raise_data(ERR_LIB_ECDSA, (r), NULL)
#  define ECerr(f, r)  ERR_raise_data(ERR_LIB_EC, (r), NULL)
#  define ENGINEerr(f, r) ERR_raise_data(ERR_LIB_ENGINE, (r), NULL)
#  define ESSerr(f, r) ERR_raise_data(ERR_LIB_ESS, (r), NULL)
#  define EVPerr(f, r) ERR_raise_data(ERR_LIB_EVP, (r), NULL)
#  define FIPSerr(f,
 r) ERR_raise_data(ERR_LIB_FIPS, (r), NULL)
#  define HMACerr(f, r) ERR_raise_data(ERR_LIB_HMAC, (r), NULL)
#  define HTTPerr(f, r) ERR_raise_data(ERR_LIB_HTTP, (r), NULL)
#  define KDFerr(f, r) ERR_raise_data(ERR_LIB_KDF, (r), NULL)
#  define OBJerr(f, r) ERR_raise_data(ERR_LIB_OBJ, (r), NULL)
#  define OCSPerr(f, r) ERR_raise_data(ERR_LIB_OCSP, (r), NULL)
#  define OSSL_STOREerr(f, r) ERR_raise_data(ERR_LIB_OSSL_STORE, (r), NULL)
#  define PEMerr(f, r) ERR_raise_data(ERR_LIB_PEM, (r), NULL)
#  define PKCS12err(f, r) ERR_raise_data(ERR_LIB_PKCS12, (r), NULL)
#  define PKCS7err(f, r) ERR_raise_data(ERR_LIB_PKCS7, (r), NULL)
#  define PROPerr(f, r) ERR_raise_data(ERR_LIB_PROP, (r), NULL)
```

```
#  define PROVerr(f, r) ERR_raise_data(ERR_LIB_PROV, (r), NULL)
#  define RANDerr(f, r) ERR_raise_data(ERR_LIB_RAND, (r), NULL)
#  define RSAerr(f, r) ERR_raise_data(ERR_LIB_RSA, (r), NULL)
#  define KDFerr(f, r) ERR_raise_data(ERR_LIB_KDF, (r), NULL)
#  define SM2err(f, r) ERR_raise_data(ERR_LIB_SM2,
 (r), NULL)
#  define SSLerr(f, r) ERR_raise_data(ERR_LIB_SSL, (r), NULL)
#  define SYSerr(f, r) ERR_raise_data(ERR_LIB_SYS, (r), NULL)
#  define TSerr(f, r) ERR_raise_data(ERR_LIB_TS, (r), NULL)
#  define UIerr(f, r) ERR_raise_data(ERR_LIB_UI, (r), NULL)
#  define X509V3err(f, r) ERR_raise_data(ERR_LIB_X509V3, (r), NULL)
#  define X509err(f, r) ERR_raise_data(ERR_LIB_X509, (r), NULL)
# endif

/*-
* The error code packs differently depending on if it records a system
* error or an OpenSSL error.
*
* A system error packs like this (we follow POSIX and only allow positive
* numbers that fit in an |int|):
*
* +-+-----------------------------------------------------------------+
* |1|                    system error number                          |
* +-+-----------------------------------------------------------------+
*
* An OpenSSL error packs like this:
*
* <---------------------------- 32 bits --------------------------->
*    <--- 8 bits --->< ------------------ 23 bits ------------------>
 * +-+---------------+-----------------------------------------------+
* |0|    library    |                    reason                     |
* +-+---------------+-----------------------------------------------+
*
* A few of the reason bits are reserved as flags with special meaning:
*
*                  <5 bits-<>--------- 19 bits ------------------>
*                 +-------+-+-----------------------------------+
*                 | rflags| |          reason                   |
*                 +-------+-+-----------------------------------+
*                        ^
*                        |
*                        ERR_RFLAG_FATAL = ERR_R_FATAL
*
* The reason flags are part of the overall reason code for practical
* reasons, as they provide an easy way to place different types of
* reason codes in different numeric ranges.
*
* The currently known reason flags are:
```

```
*
* ERR_RFLAG_FATAL      Flags that the reason code is considered fatal.
*
                    For backward compatibility reasons, this flag
*                     is also the code for ERR_R_FATAL (that reason
*                     code served the dual purpose of flag and reason
*                     code in one in pre-3.0 OpenSSL).
* ERR_RFLAG_COMMON     Flags that the reason code is common to all
*                     libraries.  All ERR_R_ macros must use this flag,
*                     and no other _R_ macro is allowed to use it.
*/

/* Macros to help decode recorded system errors */
# define ERR_SYSTEM_FLAG              ((unsigned int)INT_MAX + 1)
# define ERR_SYSTEM_MASK              ((unsigned int)INT_MAX)

/*
* Macros to help decode recorded OpenSSL errors
* As expressed above, RFLAGS and REASON overlap by one bit to allow
* ERR_R_FATAL to use ERR_RFLAG_FATAL as its reason code.
*/
# define ERR_LIB_OFFSET               23L
# define ERR_LIB_MASK                 0xFF
# define ERR_RFLAGS_OFFSET            18L
# define ERR_RFLAGS_MASK
            0x1F
# define ERR_REASON_MASK              0X7FFFFF

/*
* Reason flags are defined pre-shifted to easily combine with the reason
* number.
*/
# define ERR_RFLAG_FATAL              (0x1 << ERR_RFLAGS_OFFSET)
# define ERR_RFLAG_COMMON             (0x2 << ERR_RFLAGS_OFFSET)

# define ERR_SYSTEM_ERROR(errcode)      (((errcode) & ERR_SYSTEM_FLAG) != 0)

static ossl_unused ossl_inline int ERR_GET_LIB(unsigned long errcode)
{
  if (ERR_SYSTEM_ERROR(errcode))
      return ERR_LIB_SYS;
  return (errcode >> ERR_LIB_OFFSET) & ERR_LIB_MASK;
}

static ossl_unused ossl_inline int ERR_GET_RFLAGS(unsigned long errcode)
{
  if (ERR_SYSTEM_ERROR(errcode))
      return 0;
```

```
   return errcode & (ERR_RFLAGS_MASK << ERR_RFLAGS_OFFSET);
}

static ossl_unused ossl_inline int ERR_GET_REASON(unsigned long errcode)
{
   if (ERR_SYSTEM_ERROR(errcode))
       return errcode & ERR_SYSTEM_MASK;
   return errcode & ERR_REASON_MASK;
}

static ossl_unused ossl_inline int ERR_FATAL_ERROR(unsigned
 long errcode)
{
   return (ERR_GET_RFLAGS(errcode) & ERR_RFLAG_FATAL) != 0;
}

static ossl_unused ossl_inline int ERR_COMMON_ERROR(unsigned long errcode)
{
   return (ERR_GET_RFLAGS(errcode) & ERR_RFLAG_COMMON) != 0;
}

/*
* ERR_PACK is a helper macro to properly pack OpenSSL error codes and may
* only be used for that purpose.  System errors are packed internally.
* ERR_PACK takes reason flags and reason code combined in |reason|.
* ERR_PACK ignores |func|, that parameter is just legacy from pre-3.0 OpenSSL.
*/
# define ERR_PACK(lib,func,reason)                                    \
   ( (((unsigned long)(lib)    & ERR_LIB_MASK   ) << ERR_LIB_OFFSET) | \
     (((unsigned long)(reason) & ERR_REASON_MASK)) )

# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define SYS_F_FOPEN             0
#  define SYS_F_CONNECT           0
#  define SYS_F_GETSERVBYNAME     0
#  define SYS_F_SOCKET            0
#  define SYS_F_IOCTLSOCKET       0
#  define SYS_F_BIND              0
#
  define SYS_F_LISTEN            0
#  define SYS_F_ACCEPT            0
#  define SYS_F_WSASTARTUP        0
#  define SYS_F_OPENDIR           0
#  define SYS_F_FREAD             0
#  define SYS_F_GETADDRINFO       0
#  define SYS_F_GETNAMEINFO       0
#  define SYS_F_SETSOCKOPT        0
#  define SYS_F_GETSOCKOPT        0
```

```
#  define SYS_F_GETSOCKNAME       0
#  define SYS_F_GETHOSTBYNAME     0
#  define SYS_F_FFLUSH            0
#  define SYS_F_OPEN              0
#  define SYS_F_CLOSE             0
#  define SYS_F_IOCTL             0
#  define SYS_F_STAT              0
#  define SYS_F_FCNTL             0
#  define SYS_F_FSTAT             0
#  define SYS_F_SENDFILE          0
# endif

/*
* All ERR_R_ codes must be combined with ERR_RFLAG_COMMON.
*/

/* "we came from here" global reason codes, range 1..255 */
# define ERR_R_SYS_LIB         (ERR_LIB_SYS/* 2 */ | ERR_RFLAG_COMMON)
# define ERR_R_BN_LIB          (ERR_LIB_BN/* 3 */ | ERR_RFLAG_COMMON)
# define ERR_R_RSA_LIB         (ERR_LIB_RSA/*
 4 */ | ERR_RFLAG_COMMON)
# define ERR_R_DH_LIB          (ERR_LIB_DH/* 5 */ | ERR_RFLAG_COMMON)
# define ERR_R_EVP_LIB         (ERR_LIB_EVP/* 6 */ | ERR_RFLAG_COMMON)
# define ERR_R_BUF_LIB         (ERR_LIB_BUF/* 7 */ | ERR_RFLAG_COMMON)
# define ERR_R_OBJ_LIB         (ERR_LIB_OBJ/* 8 */ | ERR_RFLAG_COMMON)
# define ERR_R_PEM_LIB         (ERR_LIB_PEM/* 9 */ | ERR_RFLAG_COMMON)
# define ERR_R_DSA_LIB         (ERR_LIB_DSA/* 10 */ | ERR_RFLAG_COMMON)
# define ERR_R_X509_LIB        (ERR_LIB_X509/* 11 */ | ERR_RFLAG_COMMON)
# define ERR_R_ASN1_LIB        (ERR_LIB_ASN1/* 13 */ | ERR_RFLAG_COMMON)
# define ERR_R_CONF_LIB        (ERR_LIB_CONF/* 14 */ | ERR_RFLAG_COMMON)
# define ERR_R_CRYPTO_LIB      (ERR_LIB_CRYPTO/* 15 */ | ERR_RFLAG_COMMON)
# define ERR_R_EC_LIB          (ERR_LIB_EC/* 16 */ | ERR_RFLAG_COMMON)
# define ERR_R_SSL_LIB         (ERR_LIB_SSL/* 20 */ | ERR_RFLAG_COMMON)
# define ERR_R_BIO_LIB         (ERR_LIB_BIO/* 32 */ | ERR_RFLAG_COMMON)
# define ERR_R_PKCS7_LIB
      (ERR_LIB_PKCS7/* 33 */ | ERR_RFLAG_COMMON)
# define ERR_R_X509V3_LIB      (ERR_LIB_X509V3/* 34 */ | ERR_RFLAG_COMMON)
# define ERR_R_PKCS12_LIB      (ERR_LIB_PKCS12/* 35 */ | ERR_RFLAG_COMMON)
# define ERR_R_RAND_LIB        (ERR_LIB_RAND/* 36 */ | ERR_RFLAG_COMMON)
# define ERR_R_DSO_LIB         (ERR_LIB_DSO/* 37 */ | ERR_RFLAG_COMMON)
# define ERR_R_ENGINE_LIB      (ERR_LIB_ENGINE/* 38 */ | ERR_RFLAG_COMMON)
# define ERR_R_UI_LIB          (ERR_LIB_UI/* 40 */ | ERR_RFLAG_COMMON)
# define ERR_R_ECDSA_LIB       (ERR_LIB_ECDSA/* 42 */ | ERR_RFLAG_COMMON)
# define ERR_R_OSSL_STORE_LIB  (ERR_LIB_OSSL_STORE/* 44 */ | ERR_RFLAG_COMMON)
# define ERR_R_CMS_LIB         (ERR_LIB_CMS/* 46 */ | ERR_RFLAG_COMMON)
# define ERR_R_TS_LIB          (ERR_LIB_TS/* 47 */ | ERR_RFLAG_COMMON)
# define ERR_R_CT_LIB          (ERR_LIB_CT/* 50 */ | ERR_RFLAG_COMMON)
# define ERR_R_PROV_LIB        (ERR_LIB_PROV/* 57 */ | ERR_RFLAG_COMMON)
```

```
# define ERR_R_ESS_LIB         (ERR_LIB_ESS/* 54
 */ | ERR_RFLAG_COMMON)
# define ERR_R_CMP_LIB         (ERR_LIB_CMP/* 58 */ | ERR_RFLAG_COMMON)
# define ERR_R_OSSL_ENCODER_LIB (ERR_LIB_OSSL_ENCODER/* 59 */ | ERR_RFLAG_COMMON)
# define ERR_R_OSSL_DECODER_LIB (ERR_LIB_OSSL_DECODER/* 60 */ | ERR_RFLAG_COMMON)

/* Other common error codes, range 256..2^ERR_RFLAGS_OFFSET-1 */
# define ERR_R_FATAL                      (ERR_RFLAG_FATAL|ERR_RFLAG_COMMON)
# define ERR_R_MALLOC_FAILURE             (256|ERR_R_FATAL)
# define ERR_R_SHOULD_NOT_HAVE_BEEN_CALLED      (257|ERR_R_FATAL)
# define ERR_R_PASSED_NULL_PARAMETER          (258|ERR_R_FATAL)
# define ERR_R_INTERNAL_ERROR             (259|ERR_R_FATAL)
# define ERR_R_DISABLED                   (260|ERR_R_FATAL)
# define ERR_R_INIT_FAIL                  (261|ERR_R_FATAL)
# define ERR_R_PASSED_INVALID_ARGUMENT         (262|ERR_RFLAG_COMMON)
# define ERR_R_OPERATION_FAIL             (263|ERR_R_FATAL)
# define ERR_R_INVALID_PROVIDER_FUNCTIONS
   (264|ERR_R_FATAL)
# define ERR_R_INTERRUPTED_OR_CANCELLED        (265|ERR_RFLAG_COMMON)
# define ERR_R_NESTED_ASN1_ERROR              (266|ERR_RFLAG_COMMON)
# define ERR_R_MISSING_ASN1_EOS               (267|ERR_RFLAG_COMMON)
# define ERR_R_UNSUPPORTED                    (268|ERR_RFLAG_COMMON)
# define ERR_R_FETCH_FAILED                   (269|ERR_RFLAG_COMMON)
# define ERR_R_INVALID_PROPERTY_DEFINITION      (270|ERR_RFLAG_COMMON)
# define ERR_R_UNABLE_TO_GET_READ_LOCK         (271|ERR_R_FATAL)
# define ERR_R_UNABLE_TO_GET_WRITE_LOCK        (272|ERR_R_FATAL)

typedef struct ERR_string_data_st {
   unsigned long error;
   const char *string;
} ERR_STRING_DATA;

DEFINE_LHASH_OF_INTERNAL(ERR_STRING_DATA);
#define lh_ERR_STRING_DATA_new(hfn, cmp) ((LHASH_OF(ERR_STRING_DATA)
*)OPENSSL_LH_new(ossl_check_ERR_STRING_DATA_lh_hashfunc_type(hfn),
ossl_check_ERR_STRING_DATA_lh_compfunc_type(cmp)))
#define lh_ERR_STRING_DATA_free(lh) OPENSSL_LH_free(ossl_check_ERR_STRING_DATA_lh_type(lh))
#define
 lh_ERR_STRING_DATA_flush(lh) OPENSSL_LH_flush(ossl_check_ERR_STRING_DATA_lh_type(lh))
#define lh_ERR_STRING_DATA_insert(lh, ptr) ((ERR_STRING_DATA
*)OPENSSL_LH_insert(ossl_check_ERR_STRING_DATA_lh_type(lh),
ossl_check_ERR_STRING_DATA_lh_plain_type(ptr)))
#define lh_ERR_STRING_DATA_delete(lh, ptr) ((ERR_STRING_DATA
*)OPENSSL_LH_delete(ossl_check_ERR_STRING_DATA_lh_type(lh),
ossl_check_const_ERR_STRING_DATA_lh_plain_type(ptr)))
#define lh_ERR_STRING_DATA_retrieve(lh, ptr) ((ERR_STRING_DATA
*)OPENSSL_LH_retrieve(ossl_check_ERR_STRING_DATA_lh_type(lh),
ossl_check_const_ERR_STRING_DATA_lh_plain_type(ptr)))
```

```
#define lh_ERR_STRING_DATA_error(lh) OPENSSL_LH_error(ossl_check_ERR_STRING_DATA_lh_type(lh))
#define lh_ERR_STRING_DATA_num_items(lh)
OPENSSL_LH_num_items(ossl_check_ERR_STRING_DATA_lh_type(lh))
#define lh_ERR_STRING_DATA_node_stats_bio(lh, out)
OPENSSL_LH_node_stats_bio(ossl_check_const_ERR_STRING_DATA_lh_type(lh), out)
#define lh_ERR_STRING_DATA_node_usage_stats_bio(lh,
 out) OPENSSL_LH_node_usage_stats_bio(ossl_check_const_ERR_STRING_DATA_lh_type(lh), out)
#define lh_ERR_STRING_DATA_stats_bio(lh, out)
OPENSSL_LH_stats_bio(ossl_check_const_ERR_STRING_DATA_lh_type(lh), out)
#define lh_ERR_STRING_DATA_get_down_load(lh)
OPENSSL_LH_get_down_load(ossl_check_ERR_STRING_DATA_lh_type(lh))
#define lh_ERR_STRING_DATA_set_down_load(lh, dl)
OPENSSL_LH_set_down_load(ossl_check_ERR_STRING_DATA_lh_type(lh), dl)
#define lh_ERR_STRING_DATA_doall(lh, dfn)
OPENSSL_LH_doall(ossl_check_ERR_STRING_DATA_lh_type(lh),
ossl_check_ERR_STRING_DATA_lh_doallfunc_type(dfn))


/* 12 lines and some on an 80 column terminal */
#define ERR_MAX_DATA_SIZE       1024

/* Building blocks */
void ERR_new(void);
void ERR_set_debug(const char *file, int line, const char *func);
void ERR_set_error(int lib, int reason, const char *fmt, ...);
void ERR_vset_error(int lib, int reason, const char *fmt, va_list args);

/* Main error raising functions */
# define ERR_raise(lib, reason) ERR_raise_data((lib),(reason),NULL)
#
 define ERR_raise_data                                  \
   (ERR_new(),                                         \
    ERR_set_debug(OPENSSL_FILE,OPENSSL_LINE,OPENSSL_FUNC),     \
    ERR_set_error)

# ifndef OPENSSL_NO_DEPRECATED_3_0
/* Backward compatibility */
#  define ERR_put_error(lib, func, reason, file, line)         \
   (ERR_new(),                                         \
    ERR_set_debug((file), (line), OPENSSL_FUNC),               \
    ERR_set_error((lib), (reason), NULL))
# endif

void ERR_set_error_data(char *data, int flags);

unsigned long ERR_get_error(void);
unsigned long ERR_get_error_all(const char **file, int *line,
                                const char **func,
```

```
                        const char **data, int *flags);
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0
unsigned long ERR_get_error_line(const char **file, int *line);
OSSL_DEPRECATEDIN_3_0
unsigned long ERR_get_error_line_data(const
 char **file, int *line,
                            const char **data, int *flags);
#endif
unsigned long ERR_peek_error(void);
unsigned long ERR_peek_error_line(const char **file, int *line);
unsigned long ERR_peek_error_func(const char **func);
unsigned long ERR_peek_error_data(const char **data, int *flags);
unsigned long ERR_peek_error_all(const char **file, int *line,
                         const char **func,
                         const char **data, int *flags);
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0
unsigned long ERR_peek_error_line_data(const char **file, int *line,
                             const char **data, int *flags);
# endif
unsigned long ERR_peek_last_error(void);
unsigned long ERR_peek_last_error_line(const char **file, int *line);
unsigned long ERR_peek_last_error_func(const char **func);
unsigned long ERR_peek_last_error_data(const char **data, int *flags);
unsigned long ERR_peek_last_error_all(const
 char **file, int *line,
                            const char **func,
                            const char **data, int *flags);
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0
unsigned long ERR_peek_last_error_line_data(const char **file, int *line,
                                const char **data, int *flags);
# endif

void ERR_clear_error(void);

char *ERR_error_string(unsigned long e, char *buf);
void ERR_error_string_n(unsigned long e, char *buf, size_t len);
const char *ERR_lib_error_string(unsigned long e);
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 const char *ERR_func_error_string(unsigned long e);
# endif
const char *ERR_reason_error_string(unsigned long e);

void ERR_print_errors_cb(int (*cb) (const char *str, size_t len, void *u),
                    void *u);
# ifndef OPENSSL_NO_STDIO
```

```
void ERR_print_errors_fp(FILE *fp);
# endif
void ERR_print_errors(BIO *bp);

void ERR_add_error_data(int num, ...);
void ERR_add_error_vdata(int
 num, va_list args);
void ERR_add_error_txt(const char *sepr, const char *txt);
void ERR_add_error_mem_bio(const char *sep, BIO *bio);

int ERR_load_strings(int lib, ERR_STRING_DATA *str);
int ERR_load_strings_const(const ERR_STRING_DATA *str);
int ERR_unload_strings(int lib, ERR_STRING_DATA *str);

#ifndef OPENSSL_NO_DEPRECATED_1_1_0
# define ERR_load_crypto_strings() \
   OPENSSL_init_crypto(OPENSSL_INIT_LOAD_CRYPTO_STRINGS, NULL)
# define ERR_free_strings() while(0) continue
#endif
#ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 void ERR_remove_thread_state(void *);
#endif
#ifndef OPENSSL_NO_DEPRECATED_1_0_0
OSSL_DEPRECATEDIN_1_0_0 void ERR_remove_state(unsigned long pid);
#endif
#ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 ERR_STATE *ERR_get_state(void);
#endif

int ERR_get_next_error_library(void);

int ERR_set_mark(void);
int ERR_pop_to_mark(void);
int ERR_clear_last_mark(void);

#ifdef  __cplusplus
}
#endif

#endif
```

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Located in ./vendor/QRCode
- project has been modified to work in Node and some refactoring was done for code cleanup
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*/

/*
* Header for dynamic hash table routines Author - Eric Young
*/

```
#ifndef OPENSSL_LHASH_H
# define OPENSSL_LHASH_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_LHASH_H
```

```
# endif

# include <openssl/e_os2.h>
# include <openssl/bio.h>

#ifdef  __cplusplus
extern "C" {
#endif

typedef struct lhash_node_st OPENSSL_LH_NODE;
typedef int (*OPENSSL_LH_COMPFUNC) (const void *, const void *);
typedef unsigned long (*OPENSSL_LH_HASHFUNC) (const void *);
typedef void (*OPENSSL_LH_DOALL_FUNC) (void *);
typedef void (*OPENSSL_LH_DOALL_FUNCARG) (void *, void *);
typedef struct lhash_st OPENSSL_LHASH;

/*
* Macros for
 declaring and implementing type-safe wrappers for LHASH
* callbacks. This way, callbacks can be provided to LHASH structures without
* function pointer casting and the macro-defined callbacks provide
* per-variable casting before deferring to the underlying type-specific
* callbacks. NB: It is possible to place a "static" in front of both the
* DECLARE and IMPLEMENT macros if the functions are strictly internal.
*/

/* First: "hash" functions */
# define DECLARE_LHASH_HASH_FN(name, o_type) \
      unsigned long name##_LHASH_HASH(const void *);
# define IMPLEMENT_LHASH_HASH_FN(name, o_type) \
      unsigned long name##_LHASH_HASH(const void *arg) { \
            const o_type *a = arg; \
            return name##_hash(a); }
# define LHASH_HASH_FN(name) name##_LHASH_HASH

/* Second: "compare" functions */
# define DECLARE_LHASH_COMP_FN(name, o_type) \
      int name##_LHASH_COMP(const void *, const void *);
# define IMPLEMENT_LHASH_COMP_FN(name, o_type) \
      int
 name##_LHASH_COMP(const void *arg1, const void *arg2) { \
            const o_type *a = arg1;            \
            const o_type *b = arg2; \
            return name##_cmp(a,b); }
# define LHASH_COMP_FN(name) name##_LHASH_COMP

/* Fourth: "doall_arg" functions */
# define DECLARE_LHASH_DOALL_ARG_FN(name, o_type, a_type) \
```

```
    void name##_LHASH_DOALL_ARG(void *, void *);
# define IMPLEMENT_LHASH_DOALL_ARG_FN(name, o_type, a_type) \
    void name##_LHASH_DOALL_ARG(void *arg1, void *arg2) { \
        o_type *a = arg1; \
        a_type *b = arg2; \
        name##_doall_arg(a, b); }
# define LHASH_DOALL_ARG_FN(name) name##_LHASH_DOALL_ARG


# define LH_LOAD_MULT    256

int OPENSSL_LH_error(OPENSSL_LHASH *lh);
OPENSSL_LHASH *OPENSSL_LH_new(OPENSSL_LH_HASHFUNC h, OPENSSL_LH_COMPFUNC c);
void OPENSSL_LH_free(OPENSSL_LHASH *lh);
void OPENSSL_LH_flush(OPENSSL_LHASH *lh);
void *OPENSSL_LH_insert(OPENSSL_LHASH *lh, void *data);
void *OPENSSL_LH_delete(OPENSSL_LHASH
 *lh, const void *data);
void *OPENSSL_LH_retrieve(OPENSSL_LHASH *lh, const void *data);
void OPENSSL_LH_doall(OPENSSL_LHASH *lh, OPENSSL_LH_DOALL_FUNC func);
void OPENSSL_LH_doall_arg(OPENSSL_LHASH *lh, OPENSSL_LH_DOALL_FUNCARG func, void *arg);
unsigned long OPENSSL_LH_strhash(const char *c);
unsigned long OPENSSL_LH_num_items(const OPENSSL_LHASH *lh);
unsigned long OPENSSL_LH_get_down_load(const OPENSSL_LHASH *lh);
void OPENSSL_LH_set_down_load(OPENSSL_LHASH *lh, unsigned long down_load);

# ifndef OPENSSL_NO_STDIO
void OPENSSL_LH_stats(const OPENSSL_LHASH *lh, FILE *fp);
void OPENSSL_LH_node_stats(const OPENSSL_LHASH *lh, FILE *fp);
void OPENSSL_LH_node_usage_stats(const OPENSSL_LHASH *lh, FILE *fp);
# endif
void OPENSSL_LH_stats_bio(const OPENSSL_LHASH *lh, BIO *out);
void OPENSSL_LH_node_stats_bio(const OPENSSL_LHASH *lh, BIO *out);
void OPENSSL_LH_node_usage_stats_bio(const OPENSSL_LHASH *lh, BIO *out);

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define _LHASH OPENSSL_LHASH
#
  define LHASH_NODE OPENSSL_LH_NODE
#  define lh_error OPENSSL_LH_error
#  define lh_new OPENSSL_LH_new
#  define lh_free OPENSSL_LH_free
#  define lh_insert OPENSSL_LH_insert
#  define lh_delete OPENSSL_LH_delete
#  define lh_retrieve OPENSSL_LH_retrieve
#  define lh_doall OPENSSL_LH_doall
#  define lh_doall_arg OPENSSL_LH_doall_arg
#  define lh_strhash OPENSSL_LH_strhash
```

```
#  define lh_num_items OPENSSL_LH_num_items
#  ifndef OPENSSL_NO_STDIO
#   define lh_stats OPENSSL_LH_stats
#   define lh_node_stats OPENSSL_LH_node_stats
#   define lh_node_usage_stats OPENSSL_LH_node_usage_stats
#  endif
#  define lh_stats_bio OPENSSL_LH_stats_bio
#  define lh_node_stats_bio OPENSSL_LH_node_stats_bio
#  define lh_node_usage_stats_bio OPENSSL_LH_node_usage_stats_bio
# endif

/* Type checking... */

# define LHASH_OF(type) struct lhash_st_##type

/* Helper macro for internal use */
# define DEFINE_LHASH_OF_INTERNAL(type) \
   LHASH_OF(type) { union lh_##type##_dummy { void* d1; unsigned long
 d2; int d3; } dummy; }; \
   typedef int (*lh_##type##_compfunc)(const type *a, const type *b); \
   typedef unsigned long (*lh_##type##_hashfunc)(const type *a); \
   typedef void (*lh_##type##_doallfunc)(type *a); \
   static ossl_unused ossl_inline type *ossl_check_##type##_lh_plain_type(type *ptr) \
   { \
       return ptr; \
   } \
   static ossl_unused ossl_inline const type *ossl_check_const_##type##_lh_plain_type(const type *ptr) \
   { \
       return ptr; \
   } \
   static ossl_unused ossl_inline const OPENSSL_LHASH *ossl_check_const_##type##_lh_type(const
LHASH_OF(type) *lh) \
   { \
       return (const OPENSSL_LHASH *)lh; \
   } \
   static ossl_unused ossl_inline OPENSSL_LHASH *ossl_check_##type##_lh_type(LHASH_OF(type) *lh) \
   { \
       return (OPENSSL_LHASH *)lh; \
   } \
   static ossl_unused ossl_inline OPENSSL_LH_COMPFUNC
ossl_check_##type##_lh_compfunc_type(lh_##type##_compfunc cmp) \
   { \
       return (OPENSSL_LH_COMPFUNC)cmp; \

   } \
   static ossl_unused ossl_inline OPENSSL_LH_HASHFUNC
ossl_check_##type##_lh_hashfunc_type(lh_##type##_hashfunc hfn) \
   { \
```

```
    return (OPENSSL_LH_HASHFUNC)hfn; \
  } \
  static ossl_unused ossl_inline OPENSSL_LH_DOALL_FUNC
ossl_check_##type##_lh_doallfunc_type(lh_##type##_doallfunc dfn) \
  { \
    return (OPENSSL_LH_DOALL_FUNC)dfn; \
  } \
  LHASH_OF(type)

# define DEFINE_LHASH_OF(type) \
  LHASH_OF(type) { union lh_##type##_dummy { void* d1; unsigned long d2; int d3; } dummy; }; \
  static ossl_unused ossl_inline LHASH_OF(type) *lh_##type##_new(unsigned long (*hfn)(const type *), \
                                                int (*cfn)(const type *, const type *)) \
  { \
    return (LHASH_OF(type) *) \
      OPENSSL_LH_new((OPENSSL_LH_HASHFUNC)hfn, (OPENSSL_LH_COMPFUNC)cfn); \
  } \
  static ossl_unused ossl_inline void lh_##type##_free(LHASH_OF(type) *lh) \
  { \
    OPENSSL_LH_free((OPENSSL_LHASH *)lh);
 \
  } \
  static ossl_unused ossl_inline void lh_##type##_flush(LHASH_OF(type) *lh) \
  { \
    OPENSSL_LH_flush((OPENSSL_LHASH *)lh); \
  } \
  static ossl_unused ossl_inline type *lh_##type##_insert(LHASH_OF(type) *lh, type *d) \
  { \
    return (type *)OPENSSL_LH_insert((OPENSSL_LHASH *)lh, d); \
  } \
  static ossl_unused ossl_inline type *lh_##type##_delete(LHASH_OF(type) *lh, const type *d) \
  { \
    return (type *)OPENSSL_LH_delete((OPENSSL_LHASH *)lh, d); \
  } \
  static ossl_unused ossl_inline type *lh_##type##_retrieve(LHASH_OF(type) *lh, const type *d) \
  { \
    return (type *)OPENSSL_LH_retrieve((OPENSSL_LHASH *)lh, d); \
  } \
  static ossl_unused ossl_inline int lh_##type##_error(LHASH_OF(type) *lh) \
  { \
    return OPENSSL_LH_error((OPENSSL_LHASH *)lh); \
  } \
  static ossl_unused ossl_inline unsigned long lh_##type##_num_items(LHASH_OF(type) *lh) \
  { \
    return OPENSSL_LH_num_items((OPENSSL_LHASH
 *)lh); \
  } \
  static ossl_unused ossl_inline void lh_##type##_node_stats_bio(const LHASH_OF(type) *lh, BIO *out) \
```

```
  { \
     OPENSSL_LH_node_stats_bio((const OPENSSL_LHASH *)lh, out); \
  } \
  static ossl_unused ossl_inline void lh_##type##_node_usage_stats_bio(const LHASH_OF(type) *lh, BIO *out) \
  { \
     OPENSSL_LH_node_usage_stats_bio((const OPENSSL_LHASH *)lh, out); \
  } \
  static ossl_unused ossl_inline void lh_##type##_stats_bio(const LHASH_OF(type) *lh, BIO *out) \
  { \
     OPENSSL_LH_stats_bio((const OPENSSL_LHASH *)lh, out); \
  } \
  static ossl_unused ossl_inline unsigned long lh_##type##_get_down_load(LHASH_OF(type) *lh) \
  { \
     return OPENSSL_LH_get_down_load((OPENSSL_LHASH *)lh); \
  } \
  static ossl_unused ossl_inline void lh_##type##_set_down_load(LHASH_OF(type) *lh, unsigned long dl) \
  { \
     OPENSSL_LH_set_down_load((OPENSSL_LHASH *)lh, dl); \
  } \
  static ossl_unused ossl_inline void lh_##type##_doall(LHASH_OF(type)
 *lh, \
                                        void (*doall)(type *)) \
  { \
     OPENSSL_LH_doall((OPENSSL_LHASH *)lh, (OPENSSL_LH_DOALL_FUNC)doall); \
  } \
  static ossl_unused ossl_inline void lh_##type##_doall_arg(LHASH_OF(type) *lh, \
                                           void (*doallarg)(type *, void *), \
                                           void *arg) \
  { \
     OPENSSL_LH_doall_arg((OPENSSL_LHASH *)lh, \
                     (OPENSSL_LH_DOALL_FUNCARG)doallarg, arg); \
  } \
  LHASH_OF(type)

#define IMPLEMENT_LHASH_DOALL_ARG_CONST(type, argtype) \
  int_implement_lhash_doall(type, argtype, const type)

#define IMPLEMENT_LHASH_DOALL_ARG(type, argtype) \
  int_implement_lhash_doall(type, argtype, type)

#define int_implement_lhash_doall(type, argtype, cbargtype) \
  static ossl_unused ossl_inline void \
     lh_##type##_doall_##argtype(LHASH_OF(type) *lh,
 \
                        void (*fn)(cbargtype *, argtype *), \
                        argtype *arg) \
  { \
     OPENSSL_LH_doall_arg((OPENSSL_LHASH *)lh, (OPENSSL_LH_DOALL_FUNCARG)fn, (void *)arg); \
```

```
  } \
  LHASH_OF(type)

DEFINE_LHASH_OF_INTERNAL(OPENSSL_STRING);
#define lh_OPENSSL_STRING_new(hfn, cmp) ((LHASH_OF(OPENSSL_STRING)
*)OPENSSL_LH_new(ossl_check_OPENSSL_STRING_lh_hashfunc_type(hfn),
ossl_check_OPENSSL_STRING_lh_compfunc_type(cmp)))
#define lh_OPENSSL_STRING_free(lh) OPENSSL_LH_free(ossl_check_OPENSSL_STRING_lh_type(lh))
#define lh_OPENSSL_STRING_flush(lh) OPENSSL_LH_flush(ossl_check_OPENSSL_STRING_lh_type(lh))
#define lh_OPENSSL_STRING_insert(lh, ptr) ((OPENSSL_STRING
*)OPENSSL_LH_insert(ossl_check_OPENSSL_STRING_lh_type(lh),
ossl_check_OPENSSL_STRING_lh_plain_type(ptr)))
#define lh_OPENSSL_STRING_delete(lh, ptr) ((OPENSSL_STRING
*)OPENSSL_LH_delete(ossl_check_OPENSSL_STRING_lh_type(lh),
ossl_check_const_OPENSSL_STRING_lh_plain_type(ptr)))
#define
 lh_OPENSSL_STRING_retrieve(lh, ptr) ((OPENSSL_STRING
*)OPENSSL_LH_retrieve(ossl_check_OPENSSL_STRING_lh_type(lh),
ossl_check_const_OPENSSL_STRING_lh_plain_type(ptr)))
#define lh_OPENSSL_STRING_error(lh) OPENSSL_LH_error(ossl_check_OPENSSL_STRING_lh_type(lh))
#define lh_OPENSSL_STRING_num_items(lh)
OPENSSL_LH_num_items(ossl_check_OPENSSL_STRING_lh_type(lh))
#define lh_OPENSSL_STRING_node_stats_bio(lh, out)
OPENSSL_LH_node_stats_bio(ossl_check_const_OPENSSL_STRING_lh_type(lh), out)
#define lh_OPENSSL_STRING_node_usage_stats_bio(lh, out)
OPENSSL_LH_node_usage_stats_bio(ossl_check_const_OPENSSL_STRING_lh_type(lh), out)
#define lh_OPENSSL_STRING_stats_bio(lh, out)
OPENSSL_LH_stats_bio(ossl_check_const_OPENSSL_STRING_lh_type(lh), out)
#define lh_OPENSSL_STRING_get_down_load(lh)
OPENSSL_LH_get_down_load(ossl_check_OPENSSL_STRING_lh_type(lh))
#define lh_OPENSSL_STRING_set_down_load(lh, dl)
OPENSSL_LH_set_down_load(ossl_check_OPENSSL_STRING_lh_type(lh), dl)
#define lh_OPENSSL_STRING_doall(lh,
 dfn) OPENSSL_LH_doall(ossl_check_OPENSSL_STRING_lh_type(lh),
ossl_check_OPENSSL_STRING_lh_doallfunc_type(dfn))
DEFINE_LHASH_OF_INTERNAL(OPENSSL_CSTRING);
#define lh_OPENSSL_CSTRING_new(hfn, cmp) ((LHASH_OF(OPENSSL_CSTRING)
*)OPENSSL_LH_new(ossl_check_OPENSSL_CSTRING_lh_hashfunc_type(hfn),
ossl_check_OPENSSL_CSTRING_lh_compfunc_type(cmp)))
#define lh_OPENSSL_CSTRING_free(lh) OPENSSL_LH_free(ossl_check_OPENSSL_CSTRING_lh_type(lh))
#define lh_OPENSSL_CSTRING_flush(lh) OPENSSL_LH_flush(ossl_check_OPENSSL_CSTRING_lh_type(lh))
#define lh_OPENSSL_CSTRING_insert(lh, ptr) ((OPENSSL_CSTRING
*)OPENSSL_LH_insert(ossl_check_OPENSSL_CSTRING_lh_type(lh),
ossl_check_OPENSSL_CSTRING_lh_plain_type(ptr)))
#define lh_OPENSSL_CSTRING_delete(lh, ptr) ((OPENSSL_CSTRING
*)OPENSSL_LH_delete(ossl_check_OPENSSL_CSTRING_lh_type(lh),
ossl_check_const_OPENSSL_CSTRING_lh_plain_type(ptr)))
#define lh_OPENSSL_CSTRING_retrieve(lh, ptr) ((OPENSSL_CSTRING
```

```
*)OPENSSL_LH_retrieve(ossl_check_OPENSSL_CSTRING_lh_type(lh),
 ossl_check_const_OPENSSL_CSTRING_lh_plain_type(ptr)))
#define lh_OPENSSL_CSTRING_error(lh) OPENSSL_LH_error(ossl_check_OPENSSL_CSTRING_lh_type(lh))
#define lh_OPENSSL_CSTRING_num_items(lh)
OPENSSL_LH_num_items(ossl_check_OPENSSL_CSTRING_lh_type(lh))
#define lh_OPENSSL_CSTRING_node_stats_bio(lh, out)
OPENSSL_LH_node_stats_bio(ossl_check_const_OPENSSL_CSTRING_lh_type(lh), out)
#define lh_OPENSSL_CSTRING_node_usage_stats_bio(lh, out)
OPENSSL_LH_node_usage_stats_bio(ossl_check_const_OPENSSL_CSTRING_lh_type(lh), out)
#define lh_OPENSSL_CSTRING_stats_bio(lh, out)
OPENSSL_LH_stats_bio(ossl_check_const_OPENSSL_CSTRING_lh_type(lh), out)
#define lh_OPENSSL_CSTRING_get_down_load(lh)
OPENSSL_LH_get_down_load(ossl_check_OPENSSL_CSTRING_lh_type(lh))
#define lh_OPENSSL_CSTRING_set_down_load(lh, dl)
OPENSSL_LH_set_down_load(ossl_check_OPENSSL_CSTRING_lh_type(lh), dl)
#define lh_OPENSSL_CSTRING_doall(lh, dfn)
OPENSSL_LH_doall(ossl_check_OPENSSL_CSTRING_lh_type(lh),
ossl_check_OPENSSL_CSTRING_lh_doallfunc_type(dfn))


#ifdef
  __cplusplus
}
#endif

#endif
{
 'variables': {
   'openssl_sources': [
     'openssl/ssl/bio_ssl.c',
     'openssl/ssl/d1_lib.c',
     'openssl/ssl/d1_msg.c',
     'openssl/ssl/d1_srtp.c',
     'openssl/ssl/methods.c',
     'openssl/ssl/pqueue.c',
     'openssl/ssl/s3_enc.c',
     'openssl/ssl/s3_lib.c',
     'openssl/ssl/s3_msg.c',
     'openssl/ssl/ssl_asn1.c',
     'openssl/ssl/ssl_cert.c',
     'openssl/ssl/ssl_ciph.c',
     'openssl/ssl/ssl_conf.c',
     'openssl/ssl/ssl_err.c',
     'openssl/ssl/ssl_err_legacy.c',
     'openssl/ssl/ssl_init.c',
     'openssl/ssl/ssl_lib.c',
     'openssl/ssl/ssl_mcnf.c',
     'openssl/ssl/ssl_rsa.c',
```

'openssl/ssl/ssl_rsa_legacy.c',
'openssl/ssl/ssl_sess.c',
'openssl/ssl/ssl_stat.c',
'openssl/ssl/ssl_txt.c',
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  'openssl/providers/prov_running.c',
  'openssl/providers/legacyprov.c',
],
'openssl_sources_BSD-x86_64': [
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aes-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/bsaes-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx2.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx512.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s',
   './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont5.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/camellia/cmll-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/chacha/chacha-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/ec/ecp_nistz256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/ec/x25519-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/x86_64cpuid.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/md5/md5-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/modes/aesni-gcm-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/modes/ghash-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/poly1305/poly1305-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-md5-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/rc4/rc4-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/keccak1600-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-mb-x86_64.s',
   './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha512-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/whrlpool/wp-x86_64.s',
```

```
    './config/archs/BSD-x86_64/asm_avx2/engines/e_padlock-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_sm2_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_digests_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_dsa_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_ec_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_ecx_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_rsa_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_wrap_gen.c',
     './config/archs/BSD-x86_64/asm_avx2/providers/legacy.ld',
    './config/archs/BSD-x86_64/asm_avx2/providers/fips.ld',
  ],
  'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'AES_ASM',
    'BSAES_ASM',
    'CMLL_ASM',
    'ECP_NISTZ256_ASM',
    'GHASH_ASM',
    'KECCAK1600_ASM',
    'MD5_ASM',
    'OPENSSL_BN_ASM_GF2m',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_MONT5',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'PADLOCK_ASM',
    'POLY1305_ASM',
    'RC4_ASM',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'X25519_ASM',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86_64': [
    '-Wa,--noexecstack',
    '-Wall -O3',
    '-pthread',
    '-Wall -O3',
  ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
},
```

```
 'include_dirs': [
   '.',
   './include',

   './crypto',
   './crypto/include/internal',
   './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
 'direct_dependent_settings': {
   'include_dirs': ['./include', '.'],
   'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/ct.h.in
*
* Copyright 2016-2020 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the Apache License 2.0 (the "License").  You may not use
* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_CT_H
# define OPENSSL_CT_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_CT_H
# endif

# include <openssl/opensslconf.h>

# ifndef OPENSSL_NO_CT
# include <openssl/types.h>
# include <openssl/safestack.h>
# include <openssl/x509.h>
# include <openssl/cterr.h>
# ifdef  __cplusplus
```

```
extern "C" {
# endif


/* Minimum RSA key size, from RFC6962 */
# define SCT_MIN_RSA_BITS 2048

/* All hashes are SHA256 in v1 of Certificate Transparency */
# define CT_V1_HASHLEN SHA256_DIGEST_LENGTH

SKM_DEFINE_STACK_OF_INTERNAL(SCT,
 SCT, SCT)
#define sk_SCT_num(sk) OPENSSL_sk_num(ossl_check_const_SCT_sk_type(sk))
#define sk_SCT_value(sk, idx) ((SCT *)OPENSSL_sk_value(ossl_check_const_SCT_sk_type(sk), (idx)))
#define sk_SCT_new(cmp) ((STACK_OF(SCT) *)OPENSSL_sk_new(ossl_check_SCT_compfunc_type(cmp)))
#define sk_SCT_new_null() ((STACK_OF(SCT) *)OPENSSL_sk_new_null())
#define sk_SCT_new_reserve(cmp, n) ((STACK_OF(SCT)
*)OPENSSL_sk_new_reserve(ossl_check_SCT_compfunc_type(cmp), (n)))
#define sk_SCT_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_SCT_sk_type(sk), (n))
#define sk_SCT_free(sk) OPENSSL_sk_free(ossl_check_SCT_sk_type(sk))
#define sk_SCT_zero(sk) OPENSSL_sk_zero(ossl_check_SCT_sk_type(sk))
#define sk_SCT_delete(sk, i) ((SCT *)OPENSSL_sk_delete(ossl_check_SCT_sk_type(sk), (i)))
#define sk_SCT_delete_ptr(sk, ptr) ((SCT *)OPENSSL_sk_delete_ptr(ossl_check_SCT_sk_type(sk),
ossl_check_SCT_type(ptr)))
#define sk_SCT_push(sk, ptr) OPENSSL_sk_push(ossl_check_SCT_sk_type(sk), ossl_check_SCT_type(ptr))
#define sk_SCT_unshift(sk,
 ptr) OPENSSL_sk_unshift(ossl_check_SCT_sk_type(sk), ossl_check_SCT_type(ptr))
#define sk_SCT_pop(sk) ((SCT *)OPENSSL_sk_pop(ossl_check_SCT_sk_type(sk)))
#define sk_SCT_shift(sk) ((SCT *)OPENSSL_sk_shift(ossl_check_SCT_sk_type(sk)))
#define sk_SCT_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_SCT_sk_type(sk),ossl_check_SCT_freefunc_type(freefunc))
#define sk_SCT_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_SCT_sk_type(sk), ossl_check_SCT_type(ptr),
(idx))
#define sk_SCT_set(sk, idx, ptr) ((SCT *)OPENSSL_sk_set(ossl_check_SCT_sk_type(sk), (idx),
ossl_check_SCT_type(ptr)))
#define sk_SCT_find(sk, ptr) OPENSSL_sk_find(ossl_check_SCT_sk_type(sk), ossl_check_SCT_type(ptr))
#define sk_SCT_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_SCT_sk_type(sk), ossl_check_SCT_type(ptr))
#define sk_SCT_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_SCT_sk_type(sk),
ossl_check_SCT_type(ptr), pnum)
#define sk_SCT_sort(sk) OPENSSL_sk_sort(ossl_check_SCT_sk_type(sk))
#define
 sk_SCT_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_SCT_sk_type(sk))
#define sk_SCT_dup(sk) ((STACK_OF(SCT) *)OPENSSL_sk_dup(ossl_check_const_SCT_sk_type(sk)))
#define sk_SCT_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(SCT)
*)OPENSSL_sk_deep_copy(ossl_check_const_SCT_sk_type(sk), ossl_check_SCT_copyfunc_type(copyfunc),
ossl_check_SCT_freefunc_type(freefunc)))
#define sk_SCT_set_cmp_func(sk, cmp)
((sk_SCT_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_SCT_sk_type(sk),
```

```
ossl_check_SCT_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(CTLOG, CTLOG, CTLOG)
#define sk_CTLOG_num(sk) OPENSSL_sk_num(ossl_check_const_CTLOG_sk_type(sk))
#define sk_CTLOG_value(sk, idx) ((CTLOG *)OPENSSL_sk_value(ossl_check_const_CTLOG_sk_type(sk),
(idx)))
#define sk_CTLOG_new(cmp) ((STACK_OF(CTLOG)
*)OPENSSL_sk_new(ossl_check_CTLOG_compfunc_type(cmp)))
#define sk_CTLOG_new_null() ((STACK_OF(CTLOG) *)OPENSSL_sk_new_null())
#define sk_CTLOG_new_reserve(cmp, n) ((STACK_OF(CTLOG)
*)OPENSSL_sk_new_reserve(ossl_check_CTLOG_compfunc_type(cmp),
 (n)))
#define sk_CTLOG_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_CTLOG_sk_type(sk), (n))
#define sk_CTLOG_free(sk) OPENSSL_sk_free(ossl_check_CTLOG_sk_type(sk))
#define sk_CTLOG_zero(sk) OPENSSL_sk_zero(ossl_check_CTLOG_sk_type(sk))
#define sk_CTLOG_delete(sk, i) ((CTLOG *)OPENSSL_sk_delete(ossl_check_CTLOG_sk_type(sk), (i)))
#define sk_CTLOG_delete_ptr(sk, ptr) ((CTLOG *)OPENSSL_sk_delete_ptr(ossl_check_CTLOG_sk_type(sk),
ossl_check_CTLOG_type(ptr)))
#define sk_CTLOG_push(sk, ptr) OPENSSL_sk_push(ossl_check_CTLOG_sk_type(sk),
ossl_check_CTLOG_type(ptr))
#define sk_CTLOG_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_CTLOG_sk_type(sk),
ossl_check_CTLOG_type(ptr))
#define sk_CTLOG_pop(sk) ((CTLOG *)OPENSSL_sk_pop(ossl_check_CTLOG_sk_type(sk)))
#define sk_CTLOG_shift(sk) ((CTLOG *)OPENSSL_sk_shift(ossl_check_CTLOG_sk_type(sk)))
#define sk_CTLOG_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_CTLOG_sk_type(sk),ossl_check_CTLOG_freefunc_type(freefunc))
#define
 sk_CTLOG_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_CTLOG_sk_type(sk),
ossl_check_CTLOG_type(ptr), (idx))
#define sk_CTLOG_set(sk, idx, ptr) ((CTLOG *)OPENSSL_sk_set(ossl_check_CTLOG_sk_type(sk), (idx),
ossl_check_CTLOG_type(ptr)))
#define sk_CTLOG_find(sk, ptr) OPENSSL_sk_find(ossl_check_CTLOG_sk_type(sk),
ossl_check_CTLOG_type(ptr))
#define sk_CTLOG_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_CTLOG_sk_type(sk),
ossl_check_CTLOG_type(ptr))
#define sk_CTLOG_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_CTLOG_sk_type(sk),
ossl_check_CTLOG_type(ptr), pnum)
#define sk_CTLOG_sort(sk) OPENSSL_sk_sort(ossl_check_CTLOG_sk_type(sk))
#define sk_CTLOG_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_CTLOG_sk_type(sk))
#define sk_CTLOG_dup(sk) ((STACK_OF(CTLOG)
*)OPENSSL_sk_dup(ossl_check_const_CTLOG_sk_type(sk)))
#define sk_CTLOG_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(CTLOG)
*)OPENSSL_sk_deep_copy(ossl_check_const_CTLOG_sk_type(sk),
ossl_check_CTLOG_copyfunc_type(copyfunc),
 ossl_check_CTLOG_freefunc_type(freefunc)))
#define sk_CTLOG_set_cmp_func(sk, cmp)
((sk_CTLOG_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_CTLOG_sk_type(sk),
ossl_check_CTLOG_compfunc_type(cmp)))
```

```
typedef enum {
   CT_LOG_ENTRY_TYPE_NOT_SET = -1,
   CT_LOG_ENTRY_TYPE_X509 = 0,
   CT_LOG_ENTRY_TYPE_PRECERT = 1
} ct_log_entry_type_t;

typedef enum {
   SCT_VERSION_NOT_SET = -1,
   SCT_VERSION_V1 = 0
} sct_version_t;

typedef enum {
   SCT_SOURCE_UNKNOWN,
   SCT_SOURCE_TLS_EXTENSION,
   SCT_SOURCE_X509V3_EXTENSION,
   SCT_SOURCE_OCSP_STAPLED_RESPONSE
} sct_source_t;

typedef enum {
   SCT_VALIDATION_STATUS_NOT_SET,
   SCT_VALIDATION_STATUS_UNKNOWN_LOG,
   SCT_VALIDATION_STATUS_VALID,
   SCT_VALIDATION_STATUS_INVALID,
   SCT_VALIDATION_STATUS_UNVERIFIED,
   SCT_VALIDATION_STATUS_UNKNOWN_VERSION
} sct_validation_status_t;

/*******************************************
* CT policy evaluation context functions *
*******************************************/

/*
 * Creates a new, empty policy evaluation context associated with the given
* library context and property query string.
* The caller is responsible for calling CT_POLICY_EVAL_CTX_free when finished
* with the CT_POLICY_EVAL_CTX.
*/
CT_POLICY_EVAL_CTX *CT_POLICY_EVAL_CTX_new_ex(OSSL_LIB_CTX *libctx,
                                              const char *propq);

/*
* The same as CT_POLICY_EVAL_CTX_new_ex() but the default library
* context and property query string is used.
*/
CT_POLICY_EVAL_CTX *CT_POLICY_EVAL_CTX_new(void);
```

```
/* Deletes a policy evaluation context and anything it owns. */
void CT_POLICY_EVAL_CTX_free(CT_POLICY_EVAL_CTX *ctx);

/* Gets the peer certificate that the SCTs are for */
X509* CT_POLICY_EVAL_CTX_get0_cert(const CT_POLICY_EVAL_CTX *ctx);

/*
* Sets the certificate associated with the received SCTs.
* Increments the reference count of cert.
* Returns 1 on success, 0 otherwise.
*/
int CT_POLICY_EVAL_CTX_set1_cert(CT_POLICY_EVAL_CTX
 *ctx, X509 *cert);

/* Gets the issuer of the aforementioned certificate */
X509* CT_POLICY_EVAL_CTX_get0_issuer(const CT_POLICY_EVAL_CTX *ctx);

/*
* Sets the issuer of the certificate associated with the received SCTs.
* Increments the reference count of issuer.
* Returns 1 on success, 0 otherwise.
*/
int CT_POLICY_EVAL_CTX_set1_issuer(CT_POLICY_EVAL_CTX *ctx, X509 *issuer);

/* Gets the CT logs that are trusted sources of SCTs */
const CTLOG_STORE *CT_POLICY_EVAL_CTX_get0_log_store(const CT_POLICY_EVAL_CTX *ctx);

/* Sets the log store that is in use. It must outlive the CT_POLICY_EVAL_CTX. */
void CT_POLICY_EVAL_CTX_set_shared_CTLOG_STORE(CT_POLICY_EVAL_CTX *ctx,
                                               CTLOG_STORE *log_store);

/*
* Gets the time, in milliseconds since the Unix epoch, that will be used as the
* current time when checking whether an SCT was issued in the future.
* Such SCTs will fail validation, as required by RFC6962.
 */
uint64_t CT_POLICY_EVAL_CTX_get_time(const CT_POLICY_EVAL_CTX *ctx);

/*
* Sets the time to evaluate SCTs against, in milliseconds since the Unix epoch.
* If an SCT's timestamp is after this time, it will be interpreted as having
* been issued in the future. RFC6962 states that "TLS clients MUST reject SCTs
* whose timestamp is in the future", so an SCT will not validate in this case.
*/
void CT_POLICY_EVAL_CTX_set_time(CT_POLICY_EVAL_CTX *ctx, uint64_t time_in_ms);

/*****************
* SCT functions *
```

```
*****************/

/*
* Creates a new, blank SCT.
* The caller is responsible for calling SCT_free when finished with the SCT.
*/
SCT *SCT_new(void);

/*
* Creates a new SCT from some base64-encoded strings.
* The caller is responsible for calling SCT_free when finished with the SCT.
*/
SCT *SCT_new_from_base64(unsigned char version,
                         const char *logid_base64,
                         ct_log_entry_type_t entry_type,

  uint64_t timestamp,
                         const char *extensions_base64,
                         const char *signature_base64);

/*
* Frees the SCT and the underlying data structures.
*/
void SCT_free(SCT *sct);

/*
* Free a stack of SCTs, and the underlying SCTs themselves.
* Intended to be compatible with X509V3_EXT_FREE.
*/
void SCT_LIST_free(STACK_OF(SCT) *a);

/*
* Returns the version of the SCT.
*/
sct_version_t SCT_get_version(const SCT *sct);

/*
* Set the version of an SCT.
* Returns 1 on success, 0 if the version is unrecognized.
*/
__owur int SCT_set_version(SCT *sct, sct_version_t version);

/*
* Returns the log entry type of the SCT.
*/
ct_log_entry_type_t SCT_get_log_entry_type(const SCT *sct);

/*
```

```
* Set the log entry type of an SCT.
* Returns 1 on success, 0 otherwise.
*/
__owur int SCT_set_log_entry_type(SCT *sct, ct_log_entry_type_t entry_type);

/*
* Gets the ID of the log that an SCT came from.
* Ownership of the log ID remains with the SCT.
*
 Returns the length of the log ID.
*/
size_t SCT_get0_log_id(const SCT *sct, unsigned char **log_id);

/*
* Set the log ID of an SCT to point directly to the *log_id specified.
* The SCT takes ownership of the specified pointer.
* Returns 1 on success, 0 otherwise.
*/
__owur int SCT_set0_log_id(SCT *sct, unsigned char *log_id, size_t log_id_len);

/*
* Set the log ID of an SCT.
* This makes a copy of the log_id.
* Returns 1 on success, 0 otherwise.
*/
__owur int SCT_set1_log_id(SCT *sct, const unsigned char *log_id,
                           size_t log_id_len);

/*
* Returns the timestamp for the SCT (epoch time in milliseconds).
*/
uint64_t SCT_get_timestamp(const SCT *sct);

/*
* Set the timestamp of an SCT (epoch time in milliseconds).
*/
void SCT_set_timestamp(SCT *sct, uint64_t timestamp);

/*
* Return the NID for the signature used by the SCT.
* For CT v1, this will be either NID_sha256WithRSAEncryption or
* NID_ecdsa_with_SHA256 (or NID_undef if incorrect/unset).
 */
int SCT_get_signature_nid(const SCT *sct);

/*
* Set the signature type of an SCT
* For CT v1, this should be either NID_sha256WithRSAEncryption or
```

```
* NID_ecdsa_with_SHA256.
* Returns 1 on success, 0 otherwise.
*/
__owur int SCT_set_signature_nid(SCT *sct, int nid);

/*
* Set *ext to point to the extension data for the SCT. ext must not be NULL.
* The SCT retains ownership of this pointer.
* Returns length of the data pointed to.
*/
size_t SCT_get0_extensions(const SCT *sct, unsigned char **ext);

/*
* Set the extensions of an SCT to point directly to the *ext specified.
* The SCT takes ownership of the specified pointer.
*/
void SCT_set0_extensions(SCT *sct, unsigned char *ext, size_t ext_len);

/*
* Set the extensions of an SCT.
* This takes a copy of the ext.
* Returns 1 on success, 0 otherwise.
*/
__owur int SCT_set1_extensions(SCT *sct, const unsigned char *ext,
                               size_t ext_len);

/*
* Set *sig to point to the signature for the SCT.
 sig must not be NULL.
* The SCT retains ownership of this pointer.
* Returns length of the data pointed to.
*/
size_t SCT_get0_signature(const SCT *sct, unsigned char **sig);

/*
* Set the signature of an SCT to point directly to the *sig specified.
* The SCT takes ownership of the specified pointer.
*/
void SCT_set0_signature(SCT *sct, unsigned char *sig, size_t sig_len);

/*
* Set the signature of an SCT to be a copy of the *sig specified.
* Returns 1 on success, 0 otherwise.
*/
__owur int SCT_set1_signature(SCT *sct, const unsigned char *sig,
                              size_t sig_len);

/*
```

```
* The origin of this SCT, e.g. TLS extension, OCSP response, etc.
*/
sct_source_t SCT_get_source(const SCT *sct);

/*
* Set the origin of this SCT, e.g. TLS extension, OCSP response, etc.
* Returns 1 on success, 0 otherwise.
*/
__owur int SCT_set_source(SCT *sct, sct_source_t source);

/*
* Returns a text string describing the validation status of |sct|.
*/
const char *SCT_validation_status_string(const
 SCT *sct);

/*
* Pretty-prints an |sct| to |out|.
* It will be indented by the number of spaces specified by |indent|.
* If |logs| is not NULL, it will be used to lookup the CT log that the SCT came
* from, so that the log name can be printed.
*/
void SCT_print(const SCT *sct, BIO *out, int indent, const CTLOG_STORE *logs);

/*
* Pretty-prints an |sct_list| to |out|.
* It will be indented by the number of spaces specified by |indent|.
* SCTs will be delimited by |separator|.
* If |logs| is not NULL, it will be used to lookup the CT log that each SCT
* came from, so that the log names can be printed.
*/
void SCT_LIST_print(const STACK_OF(SCT) *sct_list, BIO *out, int indent,
                    const char *separator, const CTLOG_STORE *logs);

/*
* Gets the last result of validating this SCT.
* If it has not been validated yet, returns SCT_VALIDATION_STATUS_NOT_SET.
*/
sct_validation_status_t SCT_get_validation_status(const SCT *sct);

/*
* Validates
 the given SCT with the provided context.
* Sets the "validation_status" field of the SCT.
* Returns 1 if the SCT is valid and the signature verifies.
* Returns 0 if the SCT is invalid or could not be verified.
* Returns -1 if an error occurs.
*/
```

```
__owur int SCT_validate(SCT *sct, const CT_POLICY_EVAL_CTX *ctx);

/*
* Validates the given list of SCTs with the provided context.
* Sets the "validation_status" field of each SCT.
* Returns 1 if there are no invalid SCTs and all signatures verify.
* Returns 0 if at least one SCT is invalid or could not be verified.
* Returns a negative integer if an error occurs.
*/
__owur int SCT_LIST_validate(const STACK_OF(SCT) *scts,
                             CT_POLICY_EVAL_CTX *ctx);


/**********************************
* SCT parsing and serialization *
**********************************/

/*
* Serialize (to TLS format) a stack of SCTs and return the length.
* "a" must not be NULL.
* If "pp" is NULL, just return the length of what
 would have been serialized.
* If "pp" is not NULL and "*pp" is null, function will allocate a new pointer
* for data that caller is responsible for freeing (only if function returns
* successfully).
* If "pp" is NULL and "*pp" is not NULL, caller is responsible for ensuring
* that "*pp" is large enough to accept all of the serialized data.
* Returns < 0 on error, >= 0 indicating bytes written (or would have been)
* on success.
*/
__owur int i2o_SCT_LIST(const STACK_OF(SCT) *a, unsigned char **pp);

/*
* Convert TLS format SCT list to a stack of SCTs.
* If "a" or "*a" is NULL, a new stack will be created that the caller is
* responsible for freeing (by calling SCT_LIST_free).
* "**pp" and "*pp" must not be NULL.
* Upon success, "*pp" will point to after the last bytes read, and a stack
* will be returned.
* Upon failure, a NULL pointer will be returned, and the position of "*pp" is
* not defined.
*/
STACK_OF(SCT) *o2i_SCT_LIST(STACK_OF(SCT) **a, const unsigned char
 **pp,
                            size_t len);

/*
* Serialize (to DER format) a stack of SCTs and return the length.
```

```
* "a" must not be NULL.
* If "pp" is NULL, just returns the length of what would have been serialized.
* If "pp" is not NULL and "*pp" is null, function will allocate a new pointer
* for data that caller is responsible for freeing (only if function returns
* successfully).
* If "pp" is NULL and "*pp" is not NULL, caller is responsible for ensuring
* that "*pp" is large enough to accept all of the serialized data.
* Returns < 0 on error, >= 0 indicating bytes written (or would have been)
* on success.
*/
__owur int i2d_SCT_LIST(const STACK_OF(SCT) *a, unsigned char **pp);

/*
* Parses an SCT list in DER format and returns it.
* If "a" or "*a" is NULL, a new stack will be created that the caller is
* responsible for freeing (by calling SCT_LIST_free).
* "**pp" and "*pp" must not be NULL.
* Upon success, "*pp" will point to after the last bytes read, and a
 stack
* will be returned.
* Upon failure, a NULL pointer will be returned, and the position of "*pp" is
* not defined.
*/
STACK_OF(SCT) *d2i_SCT_LIST(STACK_OF(SCT) **a, const unsigned char **pp,
                            long len);

/*
* Serialize (to TLS format) an |sct| and write it to |out|.
* If |out| is null, no SCT will be output but the length will still be returned.
* If |out| points to a null pointer, a string will be allocated to hold the
* TLS-format SCT. It is the responsibility of the caller to free it.
* If |out| points to an allocated string, the TLS-format SCT will be written
* to it.
* The length of the SCT in TLS format will be returned.
*/
__owur int i2o_SCT(const SCT *sct, unsigned char **out);

/*
* Parses an SCT in TLS format and returns it.
* If |psct| is not null, it will end up pointing to the parsed SCT. If it
* already points to a non-null pointer, the pointer will be free'd.
* |in| should be a pointer to a string containing the TLS-format SCT.
 * |in| will be advanced to the end of the SCT if parsing succeeds.
* |len| should be the length of the SCT in |in|.
* Returns NULL if an error occurs.
* If the SCT is an unsupported version, only the SCT's 'sct' and 'sct_len'
* fields will be populated (with |in| and |len| respectively).
*/
```

```
SCT *o2i_SCT(SCT **psct, const unsigned char **in, size_t len);

/********************
* CT log functions *
********************/

/*
* Creates a new CT log instance with the given |public_key| and |name| and
* associates it with the give library context |libctx| and property query
* string |propq|.
* Takes ownership of |public_key| but copies |name|.
* Returns NULL if malloc fails or if |public_key| cannot be converted to DER.
* Should be deleted by the caller using CTLOG_free when no longer needed.
*/
CTLOG *CTLOG_new_ex(EVP_PKEY *public_key, const char *name, OSSL_LIB_CTX *libctx,
                    const char *propq);

/*
* The same as CTLOG_new_ex except that the default library
 context and
* property query string are used.
*/
CTLOG *CTLOG_new(EVP_PKEY *public_key, const char *name);

/*
* Creates a new CTLOG instance with the base64-encoded SubjectPublicKeyInfo DER
* in |pkey_base64| and associated with the given library context |libctx| and
* property query string |propq|. The |name| is a string to help users identify
* this log.
* Returns 1 on success, 0 on failure.
* Should be deleted by the caller using CTLOG_free when no longer needed.
*/
int CTLOG_new_from_base64_ex(CTLOG **ct_log, const char *pkey_base64,
                             const char *name, OSSL_LIB_CTX *libctx,
                             const char *propq);

/*
* The same as CTLOG_new_from_base64_ex() except that the default
* library context and property query string are used.
* Returns 1 on success, 0 on failure.
*/
int CTLOG_new_from_base64(CTLOG ** ct_log,
                          const char *pkey_base64, const char *name);

/*
* Deletes a CT log instance and its
 fields.
*/
```

```
void CTLOG_free(CTLOG *log);

/* Gets the name of the CT log */
const char *CTLOG_get0_name(const CTLOG *log);
/* Gets the ID of the CT log */
void CTLOG_get0_log_id(const CTLOG *log, const uint8_t **log_id,
                       size_t *log_id_len);
/* Gets the public key of the CT log */
EVP_PKEY *CTLOG_get0_public_key(const CTLOG *log);

/***************************
* CT log store functions *
***************************/

/*
* Creates a new CT log store and associates it with the given libctx and
* property query string.
* Should be deleted by the caller using CTLOG_STORE_free when no longer needed.
*/
CTLOG_STORE *CTLOG_STORE_new_ex(OSSL_LIB_CTX *libctx, const char *propq);

/*
* Same as CTLOG_STORE_new_ex except that the default libctx and
* property query string are used.
* Should be deleted by the caller using CTLOG_STORE_free when no longer needed.
*/
CTLOG_STORE *CTLOG_STORE_new(void);

/*
* Deletes a CT log store and all of the CT log instances held within.
 */
void CTLOG_STORE_free(CTLOG_STORE *store);

/*
* Finds a CT log in the store based on its log ID.
* Returns the CT log, or NULL if no match is found.
*/
const CTLOG *CTLOG_STORE_get0_log_by_id(const CTLOG_STORE *store,
                                        const uint8_t *log_id,
                                        size_t log_id_len);

/*
* Loads a CT log list into a |store| from a |file|.
* Returns 1 if loading is successful, or 0 otherwise.
*/
__owur int CTLOG_STORE_load_file(CTLOG_STORE *store, const char *file);

/*
```

```
* Loads the default CT log list into a |store|.
* Returns 1 if loading is successful, or 0 otherwise.
*/
__owur int CTLOG_STORE_load_default_file(CTLOG_STORE *store);

#  ifdef  __cplusplus
}
#  endif
# endif
#endif
```

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```
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/pkcs12.h.in
*
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*
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* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/
```

```
#ifndef OPENSSL_PKCS12_H
# define OPENSSL_PKCS12_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_PKCS12_H
# endif

# include <openssl/bio.h>
# include <openssl/core.h>
# include <openssl/x509.h>
# include <openssl/pkcs12err.h>

#ifdef __cplusplus
extern "C" {
#endif

# define PKCS12_KEY_ID   1
# define PKCS12_IV_ID    2
# define PKCS12_MAC_ID   3

/* Default iteration count */
# ifndef PKCS12_DEFAULT_ITER
#  define PKCS12_DEFAULT_ITER     PKCS5_DEFAULT_ITER
# endif

# define PKCS12_MAC_KEY_LENGTH 20

# define PKCS12_SALT_LEN
 8

/* It's not clear if these are actually needed... */
# define PKCS12_key_gen PKCS12_key_gen_utf8
# define PKCS12_add_friendlyname PKCS12_add_friendlyname_utf8

/* MS key usage constants */

# define KEY_EX  0x10
# define KEY_SIG 0x80

typedef struct PKCS12_MAC_DATA_st PKCS12_MAC_DATA;

typedef struct PKCS12_st PKCS12;
```

```
typedef struct PKCS12_SAFEBAG_st PKCS12_SAFEBAG;

SKM_DEFINE_STACK_OF_INTERNAL(PKCS12_SAFEBAG, PKCS12_SAFEBAG, PKCS12_SAFEBAG)
#define sk_PKCS12_SAFEBAG_num(sk)
OPENSSL_sk_num(ossl_check_const_PKCS12_SAFEBAG_sk_type(sk))
#define sk_PKCS12_SAFEBAG_value(sk, idx) ((PKCS12_SAFEBAG
*)OPENSSL_sk_value(ossl_check_const_PKCS12_SAFEBAG_sk_type(sk), (idx)))
#define sk_PKCS12_SAFEBAG_new(cmp) ((STACK_OF(PKCS12_SAFEBAG)
*)OPENSSL_sk_new(ossl_check_PKCS12_SAFEBAG_compfunc_type(cmp)))
#define sk_PKCS12_SAFEBAG_new_null() ((STACK_OF(PKCS12_SAFEBAG) *)OPENSSL_sk_new_null())
#define sk_PKCS12_SAFEBAG_new_reserve(cmp, n) ((STACK_OF(PKCS12_SAFEBAG)
*)OPENSSL_sk_new_reserve(ossl_check_PKCS12_SAFEBAG_compfunc_type(cmp),
 (n)))
#define sk_PKCS12_SAFEBAG_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_PKCS12_SAFEBAG_sk_type(sk), (n))
#define sk_PKCS12_SAFEBAG_free(sk) OPENSSL_sk_free(ossl_check_PKCS12_SAFEBAG_sk_type(sk))
#define sk_PKCS12_SAFEBAG_zero(sk) OPENSSL_sk_zero(ossl_check_PKCS12_SAFEBAG_sk_type(sk))
#define sk_PKCS12_SAFEBAG_delete(sk, i) ((PKCS12_SAFEBAG
*)OPENSSL_sk_delete(ossl_check_PKCS12_SAFEBAG_sk_type(sk), (i)))
#define sk_PKCS12_SAFEBAG_delete_ptr(sk, ptr) ((PKCS12_SAFEBAG
*)OPENSSL_sk_delete_ptr(ossl_check_PKCS12_SAFEBAG_sk_type(sk),
ossl_check_PKCS12_SAFEBAG_type(ptr)))
#define sk_PKCS12_SAFEBAG_push(sk, ptr) OPENSSL_sk_push(ossl_check_PKCS12_SAFEBAG_sk_type(sk),
ossl_check_PKCS12_SAFEBAG_type(ptr))
#define sk_PKCS12_SAFEBAG_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_PKCS12_SAFEBAG_sk_type(sk), ossl_check_PKCS12_SAFEBAG_type(ptr))
#define sk_PKCS12_SAFEBAG_pop(sk) ((PKCS12_SAFEBAG
*)OPENSSL_sk_pop(ossl_check_PKCS12_SAFEBAG_sk_type(sk)))
#define
 sk_PKCS12_SAFEBAG_shift(sk) ((PKCS12_SAFEBAG
*)OPENSSL_sk_shift(ossl_check_PKCS12_SAFEBAG_sk_type(sk)))
#define sk_PKCS12_SAFEBAG_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_PKCS12_SAFEBAG_sk_type(sk),ossl_check_PKCS12_SAFEBAG_freefunc_
type(freefunc))
#define sk_PKCS12_SAFEBAG_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_PKCS12_SAFEBAG_sk_type(sk), ossl_check_PKCS12_SAFEBAG_type(ptr),
(idx))
#define sk_PKCS12_SAFEBAG_set(sk, idx, ptr) ((PKCS12_SAFEBAG
*)OPENSSL_sk_set(ossl_check_PKCS12_SAFEBAG_sk_type(sk), (idx),
ossl_check_PKCS12_SAFEBAG_type(ptr)))
#define sk_PKCS12_SAFEBAG_find(sk, ptr) OPENSSL_sk_find(ossl_check_PKCS12_SAFEBAG_sk_type(sk),
ossl_check_PKCS12_SAFEBAG_type(ptr))
#define sk_PKCS12_SAFEBAG_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_PKCS12_SAFEBAG_sk_type(sk), ossl_check_PKCS12_SAFEBAG_type(ptr))
#define sk_PKCS12_SAFEBAG_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_PKCS12_SAFEBAG_sk_type(sk), ossl_check_PKCS12_SAFEBAG_type(ptr),
pnum)
#define
```

```
 sk_PKCS12_SAFEBAG_sort(sk) OPENSSL_sk_sort(ossl_check_PKCS12_SAFEBAG_sk_type(sk))
#define sk_PKCS12_SAFEBAG_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_PKCS12_SAFEBAG_sk_type(sk))
#define sk_PKCS12_SAFEBAG_dup(sk) ((STACK_OF(PKCS12_SAFEBAG)
*)OPENSSL_sk_dup(ossl_check_const_PKCS12_SAFEBAG_sk_type(sk)))
#define sk_PKCS12_SAFEBAG_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(PKCS12_SAFEBAG)
*)OPENSSL_sk_deep_copy(ossl_check_const_PKCS12_SAFEBAG_sk_type(sk),
ossl_check_PKCS12_SAFEBAG_copyfunc_type(copyfunc),
ossl_check_PKCS12_SAFEBAG_freefunc_type(freefunc)))
#define sk_PKCS12_SAFEBAG_set_cmp_func(sk, cmp)
((sk_PKCS12_SAFEBAG_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_PKCS12_SAFEBAG_sk_type(sk),
ossl_check_PKCS12_SAFEBAG_compfunc_type(cmp)))


typedef struct pkcs12_bag_st PKCS12_BAGS;

# define PKCS12_ERROR    0
# define PKCS12_OK       1

/* Compatibility macros */

#ifndef OPENSSL_NO_DEPRECATED_1_1_0

# define M_PKCS12_bag_type PKCS12_bag_type
# define M_PKCS12_cert_bag_type
 PKCS12_cert_bag_type
# define M_PKCS12_crl_bag_type PKCS12_cert_bag_type

# define PKCS12_certbag2x509 PKCS12_SAFEBAG_get1_cert
# define PKCS12_certbag2scrl PKCS12_SAFEBAG_get1_crl
# define PKCS12_bag_type PKCS12_SAFEBAG_get_nid
# define PKCS12_cert_bag_type PKCS12_SAFEBAG_get_bag_nid
# define PKCS12_x5092certbag PKCS12_SAFEBAG_create_cert
# define PKCS12_x509crl2certbag PKCS12_SAFEBAG_create_crl
# define PKCS12_MAKE_KEYBAG PKCS12_SAFEBAG_create0_p8inf
# define PKCS12_MAKE_SHKEYBAG PKCS12_SAFEBAG_create_pkcs8_encrypt

#endif
#ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 ASN1_TYPE *PKCS12_get_attr(const PKCS12_SAFEBAG *bag,
                                    int attr_nid);
#endif

ASN1_TYPE *PKCS8_get_attr(PKCS8_PRIV_KEY_INFO *p8, int attr_nid);
int PKCS12_mac_present(const PKCS12 *p12);
void PKCS12_get0_mac(const ASN1_OCTET_STRING **pmac,
                 const X509_ALGOR **pmacalg,
                 const ASN1_OCTET_STRING **psalt,
```

```
    const ASN1_INTEGER **piter,
                const PKCS12 *p12);

const ASN1_TYPE *PKCS12_SAFEBAG_get0_attr(const PKCS12_SAFEBAG *bag,
                              int attr_nid);
const ASN1_OBJECT *PKCS12_SAFEBAG_get0_type(const PKCS12_SAFEBAG *bag);
int PKCS12_SAFEBAG_get_nid(const PKCS12_SAFEBAG *bag);
int PKCS12_SAFEBAG_get_bag_nid(const PKCS12_SAFEBAG *bag);
const ASN1_TYPE *PKCS12_SAFEBAG_get0_bag_obj(const PKCS12_SAFEBAG *bag);
const ASN1_OBJECT *PKCS12_SAFEBAG_get0_bag_type(const PKCS12_SAFEBAG *bag);

X509 *PKCS12_SAFEBAG_get1_cert(const PKCS12_SAFEBAG *bag);
X509_CRL *PKCS12_SAFEBAG_get1_crl(const PKCS12_SAFEBAG *bag);
const STACK_OF(PKCS12_SAFEBAG) *
PKCS12_SAFEBAG_get0_safes(const PKCS12_SAFEBAG *bag);
const PKCS8_PRIV_KEY_INFO *PKCS12_SAFEBAG_get0_p8inf(const PKCS12_SAFEBAG *bag);
const X509_SIG *PKCS12_SAFEBAG_get0_pkcs8(const PKCS12_SAFEBAG *bag);

PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_cert(X509 *x509);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_crl(X509_CRL
 *crl);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_secret(int type, int vtype, const unsigned char *value, int len);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create0_p8inf(PKCS8_PRIV_KEY_INFO *p8);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create0_pkcs8(X509_SIG *p8);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_pkcs8_encrypt(int pbe_nid,
                                    const char *pass,
                                    int passlen,
                                    unsigned char *salt,
                                    int saltlen, int iter,
                                    PKCS8_PRIV_KEY_INFO *p8inf);
PKCS12_SAFEBAG *PKCS12_SAFEBAG_create_pkcs8_encrypt_ex(int pbe_nid,
                                      const char *pass,
                                      int passlen,
                                      unsigned char *salt,

            int saltlen, int iter,
                                      PKCS8_PRIV_KEY_INFO *p8inf,
                                      OSSL_LIB_CTX *ctx,
                                      const char *propq);

PKCS12_SAFEBAG *PKCS12_item_pack_safebag(void *obj, const ASN1_ITEM *it,
                              int nid1, int nid2);
PKCS8_PRIV_KEY_INFO *PKCS8_decrypt(const X509_SIG *p8, const char *pass,
                          int passlen);
PKCS8_PRIV_KEY_INFO *PKCS8_decrypt_ex(const X509_SIG *p8, const char *pass,
                            int passlen, OSSL_LIB_CTX *ctx,
                            const char *propq);
```

```
PKCS8_PRIV_KEY_INFO *PKCS12_decrypt_skey(const PKCS12_SAFEBAG *bag,
                                         const char *pass, int passlen);
PKCS8_PRIV_KEY_INFO *PKCS12_decrypt_skey_ex(const PKCS12_SAFEBAG *bag,
                                            const char *pass,
 int passlen,
                                            OSSL_LIB_CTX *ctx,
                                            const char *propq);
X509_SIG *PKCS8_encrypt(int pbe_nid, const EVP_CIPHER *cipher,
                        const char *pass, int passlen, unsigned char *salt,
                        int saltlen, int iter, PKCS8_PRIV_KEY_INFO *p8);
X509_SIG *PKCS8_encrypt_ex(int pbe_nid, const EVP_CIPHER *cipher,
                           const char *pass, int passlen, unsigned char *salt,
                           int saltlen, int iter, PKCS8_PRIV_KEY_INFO *p8,
                           OSSL_LIB_CTX *ctx, const char *propq);
X509_SIG *PKCS8_set0_pbe(const char *pass, int passlen,
                         PKCS8_PRIV_KEY_INFO *p8inf, X509_ALGOR *pbe);
X509_SIG *PKCS8_set0_pbe_ex(const char *pass, int passlen,
                            PKCS8_PRIV_KEY_INFO *p8inf, X509_ALGOR *pbe,
                            OSSL_LIB_CTX *ctx, const char *propq);
PKCS7 *PKCS12_pack_p7data(STACK_OF(PKCS12_SAFEBAG)
 *sk);
STACK_OF(PKCS12_SAFEBAG) *PKCS12_unpack_p7data(PKCS7 *p7);
PKCS7 *PKCS12_pack_p7encdata(int pbe_nid, const char *pass, int passlen,
                             unsigned char *salt, int saltlen, int iter,
                             STACK_OF(PKCS12_SAFEBAG) *bags);
PKCS7 *PKCS12_pack_p7encdata_ex(int pbe_nid, const char *pass, int passlen,
                                unsigned char *salt, int saltlen, int iter,
                                STACK_OF(PKCS12_SAFEBAG) *bags,
                                OSSL_LIB_CTX *ctx, const char *propq);

STACK_OF(PKCS12_SAFEBAG) *PKCS12_unpack_p7encdata(PKCS7 *p7, const char *pass,
                                                  int passlen);

int PKCS12_pack_authsafes(PKCS12 *p12, STACK_OF(PKCS7) *safes);
STACK_OF(PKCS7) *PKCS12_unpack_authsafes(const PKCS12 *p12);

int PKCS12_add_localkeyid(PKCS12_SAFEBAG *bag, unsigned char *name,
                          int namelen);
int PKCS12_add_friendlyname_asc(PKCS12_SAFEBAG
 *bag, const char *name,
                                int namelen);
int PKCS12_add_friendlyname_utf8(PKCS12_SAFEBAG *bag, const char *name,
                                 int namelen);
int PKCS12_add_CSPName_asc(PKCS12_SAFEBAG *bag, const char *name,
                           int namelen);
int PKCS12_add_friendlyname_uni(PKCS12_SAFEBAG *bag,
                                const unsigned char *name, int namelen);
int PKCS12_add1_attr_by_NID(PKCS12_SAFEBAG *bag, int nid, int type,
```

```
                    const unsigned char *bytes, int len);
int PKCS12_add1_attr_by_txt(PKCS12_SAFEBAG *bag, const char *attrname, int type,
                    const unsigned char *bytes, int len);
int PKCS8_add_keyusage(PKCS8_PRIV_KEY_INFO *p8, int usage);
ASN1_TYPE *PKCS12_get_attr_gen(const STACK_OF(X509_ATTRIBUTE) *attrs,
                      int attr_nid);
char *PKCS12_get_friendlyname(PKCS12_SAFEBAG *bag);
const STACK_OF(X509_ATTRIBUTE) *
PKCS12_SAFEBAG_get0_attrs(const
 PKCS12_SAFEBAG *bag);
unsigned char *PKCS12_pbe_crypt(const X509_ALGOR *algor,
                        const char *pass, int passlen,
                        const unsigned char *in, int inlen,
                        unsigned char **data, int *datalen,
                        int en_de);
unsigned char *PKCS12_pbe_crypt_ex(const X509_ALGOR *algor,
                          const char *pass, int passlen,
                          const unsigned char *in, int inlen,
                          unsigned char **data, int *datalen,
                          int en_de, OSSL_LIB_CTX *libctx,
                          const char *propq);
void *PKCS12_item_decrypt_d2i(const X509_ALGOR *algor, const ASN1_ITEM *it,
                      const char *pass, int passlen,
                      const ASN1_OCTET_STRING *oct, int zbuf);
void *PKCS12_item_decrypt_d2i_ex(const X509_ALGOR *algor, const ASN1_ITEM *it,
                        const char *pass, int passlen,
                        const ASN1_OCTET_STRING *oct, int zbuf,
                        OSSL_LIB_CTX *libctx,
                        const char *propq);
ASN1_OCTET_STRING *PKCS12_item_i2d_encrypt(X509_ALGOR *algor,
                              const ASN1_ITEM *it,
                              const char *pass, int passlen,
                              void *obj, int zbuf);
ASN1_OCTET_STRING *PKCS12_item_i2d_encrypt_ex(X509_ALGOR *algor,
                                const ASN1_ITEM *it,
                                const char *pass, int passlen,
                                void *obj, int zbuf,
                                OSSL_LIB_CTX *ctx,
                                const char *propq);
PKCS12 *PKCS12_init(int mode);
PKCS12 *PKCS12_init_ex(int mode, OSSL_LIB_CTX *ctx,
 const char *propq);

int PKCS12_key_gen_asc(const char *pass, int passlen, unsigned char *salt,
                int saltlen, int id, int iter, int n,
                unsigned char *out, const EVP_MD *md_type);
int PKCS12_key_gen_asc_ex(const char *pass, int passlen, unsigned char *salt,
                  int saltlen, int id, int iter, int n,
```

```
                    unsigned char *out, const EVP_MD *md_type,
                    OSSL_LIB_CTX *ctx, const char *propq);
int PKCS12_key_gen_uni(unsigned char *pass, int passlen, unsigned char *salt,
                   int saltlen, int id, int iter, int n,
                   unsigned char *out, const EVP_MD *md_type);
int PKCS12_key_gen_uni_ex(unsigned char *pass, int passlen, unsigned char *salt,
                    int saltlen, int id, int iter, int n,
                    unsigned char *out, const EVP_MD *md_type,
                    OSSL_LIB_CTX *ctx, const char *propq);
int PKCS12_key_gen_utf8(const
 char *pass, int passlen, unsigned char *salt,
                   int saltlen, int id, int iter, int n,
                   unsigned char *out, const EVP_MD *md_type);
int PKCS12_key_gen_utf8_ex(const char *pass, int passlen, unsigned char *salt,
                    int saltlen, int id, int iter, int n,
                    unsigned char *out, const EVP_MD *md_type,
                    OSSL_LIB_CTX *ctx, const char *propq);

int PKCS12_PBE_keyivgen(EVP_CIPHER_CTX *ctx, const char *pass, int passlen,
                   ASN1_TYPE *param, const EVP_CIPHER *cipher,
                   const EVP_MD *md_type, int en_de);
int PKCS12_PBE_keyivgen_ex(EVP_CIPHER_CTX *ctx, const char *pass, int passlen,
                    ASN1_TYPE *param, const EVP_CIPHER *cipher,
                    const EVP_MD *md_type, int en_de,
                    OSSL_LIB_CTX *libctx, const char *propq);
int PKCS12_gen_mac(PKCS12 *p12, const char
 *pass, int passlen,
               unsigned char *mac, unsigned int *maclen);
int PKCS12_verify_mac(PKCS12 *p12, const char *pass, int passlen);
int PKCS12_set_mac(PKCS12 *p12, const char *pass, int passlen,
               unsigned char *salt, int saltlen, int iter,
               const EVP_MD *md_type);
int PKCS12_setup_mac(PKCS12 *p12, int iter, unsigned char *salt,
                 int saltlen, const EVP_MD *md_type);
unsigned char *OPENSSL_asc2uni(const char *asc, int asclen,
                       unsigned char **uni, int *unilen);
char *OPENSSL_uni2asc(const unsigned char *uni, int unilen);
unsigned char *OPENSSL_utf82uni(const char *asc, int asclen,
                        unsigned char **uni, int *unilen);
char *OPENSSL_uni2utf8(const unsigned char *uni, int unilen);

DECLARE_ASN1_FUNCTIONS(PKCS12)
DECLARE_ASN1_FUNCTIONS(PKCS12_MAC_DATA)
DECLARE_ASN1_FUNCTIONS(PKCS12_SAFEBAG)
DECLARE_ASN1_FUNCTIONS(PKCS12_BAGS)

DECLARE_ASN1_ITEM(PKCS12_SAFEBAGS)
DECLARE_ASN1_ITEM(PKCS12_AUTHSAFES)
```

```
void
 PKCS12_PBE_add(void);
int PKCS12_parse(PKCS12 *p12, const char *pass, EVP_PKEY **pkey, X509 **cert,
             STACK_OF(X509) **ca);
PKCS12 *PKCS12_create(const char *pass, const char *name, EVP_PKEY *pkey,
                 X509 *cert, STACK_OF(X509) *ca, int nid_key, int nid_cert,
                 int iter, int mac_iter, int keytype);
PKCS12 *PKCS12_create_ex(const char *pass, const char *name, EVP_PKEY *pkey,
                    X509 *cert, STACK_OF(X509) *ca, int nid_key, int nid_cert,
                    int iter, int mac_iter, int keytype,
                    OSSL_LIB_CTX *ctx, const char *propq);

PKCS12_SAFEBAG *PKCS12_add_cert(STACK_OF(PKCS12_SAFEBAG) **pbags, X509 *cert);
PKCS12_SAFEBAG *PKCS12_add_key(STACK_OF(PKCS12_SAFEBAG) **pbags,
                        EVP_PKEY *key, int key_usage, int iter,
                        int key_nid, const char *pass);
PKCS12_SAFEBAG *PKCS12_add_key_ex(STACK_OF(PKCS12_SAFEBAG)
 **pbags,
                           EVP_PKEY *key, int key_usage, int iter,
                           int key_nid, const char *pass,
                           OSSL_LIB_CTX *ctx, const char *propq);

PKCS12_SAFEBAG *PKCS12_add_secret(STACK_OF(PKCS12_SAFEBAG) **pbags,
                           int nid_type, const unsigned char *value, int len);
int PKCS12_add_safe(STACK_OF(PKCS7) **psafes, STACK_OF(PKCS12_SAFEBAG) *bags,
                int safe_nid, int iter, const char *pass);
int PKCS12_add_safe_ex(STACK_OF(PKCS7) **psafes, STACK_OF(PKCS12_SAFEBAG) *bags,
                  int safe_nid, int iter, const char *pass,
                  OSSL_LIB_CTX *ctx, const char *propq);

PKCS12 *PKCS12_add_safes(STACK_OF(PKCS7) *safes, int p7_nid);
PKCS12 *PKCS12_add_safes_ex(STACK_OF(PKCS7) *safes, int p7_nid,
                       OSSL_LIB_CTX *ctx, const char *propq);

int i2d_PKCS12_bio(BIO *bp, const PKCS12 *p12);
# ifndef
 OPENSSL_NO_STDIO
int i2d_PKCS12_fp(FILE *fp, const PKCS12 *p12);
# endif
PKCS12 *d2i_PKCS12_bio(BIO *bp, PKCS12 **p12);
# ifndef OPENSSL_NO_STDIO
PKCS12 *d2i_PKCS12_fp(FILE *fp, PKCS12 **p12);
# endif
int PKCS12_newpass(PKCS12 *p12, const char *oldpass, const char *newpass);

# ifdef  __cplusplus
}
```

endif
#endif
<!-- This file is automatically added by @npmcli/template-oss. Do not edit. -->

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/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/ocsp.h.in
*
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* this file except in compliance with the License. You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#ifndef OPENSSL_OCSP_H
define OPENSSL_OCSP_H
pragma once

include <openssl/macros.h>
ifndef OPENSSL_NO_DEPRECATED_3_0
define HEADER_OCSP_H
endif

include <openssl/opensslconf.h>
include <openssl/http.h>
include <openssl/asn1.h>

```
/*
* These definitions are outside the OPENSSL_NO_OCSP guard because although for
* historical reasons they have OCSP_* names, they can actually be used
* independently of OCSP. E.g. see RFC5280
*/
/*-
*   CRLReason ::= ENUMERATED {
*       unspecified             (0),
*       keyCompromise           (1),
*       cACompromise
          (2),
*       affiliationChanged      (3),
*       superseded              (4),
*       cessationOfOperation    (5),
*       certificateHold         (6),
*       -- value 7 is not used
*       removeFromCRL           (8),
*       privilegeWithdrawn      (9),
*       aACompromise            (10) }
*/
# define OCSP_REVOKED_STATUS_NOSTATUS               -1
# define OCSP_REVOKED_STATUS_UNSPECIFIED            0
# define OCSP_REVOKED_STATUS_KEYCOMPROMISE          1
# define OCSP_REVOKED_STATUS_CACOMPROMISE           2
# define OCSP_REVOKED_STATUS_AFFILIATIONCHANGED     3
# define OCSP_REVOKED_STATUS_SUPERSEDED             4
# define OCSP_REVOKED_STATUS_CESSATIONOFOPERATION   5
# define OCSP_REVOKED_STATUS_CERTIFICATEHOLD        6
# define OCSP_REVOKED_STATUS_REMOVEFROMCRL          8
# define OCSP_REVOKED_STATUS_PRIVILEGEWITHDRAWN     9
# define OCSP_REVOKED_STATUS_AACOMPROMISE           10


# ifndef OPENSSL_NO_OCSP

#  include <openssl/x509.h>
#
  include <openssl/x509v3.h>
#  include <openssl/safestack.h>
#  include <openssl/ocsperr.h>

#  ifdef __cplusplus
extern "C" {
#  endif

/* Various flags and values */
```

```
# define OCSP_DEFAULT_NONCE_LENGTH      16

# define OCSP_NOCERTS                   0x1
# define OCSP_NOINTERN                  0x2
# define OCSP_NOSIGS                    0x4
# define OCSP_NOCHAIN                   0x8
# define OCSP_NOVERIFY                  0x10
# define OCSP_NOEXPLICIT                0x20
# define OCSP_NOCASIGN                  0x40
# define OCSP_NODELEGATED               0x80
# define OCSP_NOCHECKS                  0x100
# define OCSP_TRUSTOTHER                0x200
# define OCSP_RESPID_KEY                0x400
# define OCSP_NOTIME                    0x800
# define OCSP_PARTIAL_CHAIN             0x1000

typedef struct ocsp_cert_id_st OCSP_CERTID;
typedef struct ocsp_one_request_st OCSP_ONEREQ;
typedef struct ocsp_req_info_st OCSP_REQINFO;
typedef struct ocsp_signature_st
 OCSP_SIGNATURE;
typedef struct ocsp_request_st OCSP_REQUEST;

SKM_DEFINE_STACK_OF_INTERNAL(OCSP_CERTID, OCSP_CERTID, OCSP_CERTID)
#define sk_OCSP_CERTID_num(sk) OPENSSL_sk_num(ossl_check_const_OCSP_CERTID_sk_type(sk))
#define sk_OCSP_CERTID_value(sk, idx) ((OCSP_CERTID
*)OPENSSL_sk_value(ossl_check_const_OCSP_CERTID_sk_type(sk), (idx)))
#define sk_OCSP_CERTID_new(cmp) ((STACK_OF(OCSP_CERTID)
*)OPENSSL_sk_new(ossl_check_OCSP_CERTID_compfunc_type(cmp)))
#define sk_OCSP_CERTID_new_null() ((STACK_OF(OCSP_CERTID) *)OPENSSL_sk_new_null())
#define sk_OCSP_CERTID_new_reserve(cmp, n) ((STACK_OF(OCSP_CERTID)
*)OPENSSL_sk_new_reserve(ossl_check_OCSP_CERTID_compfunc_type(cmp), (n)))
#define sk_OCSP_CERTID_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_OCSP_CERTID_sk_type(sk), (n))
#define sk_OCSP_CERTID_free(sk) OPENSSL_sk_free(ossl_check_OCSP_CERTID_sk_type(sk))
#define sk_OCSP_CERTID_zero(sk) OPENSSL_sk_zero(ossl_check_OCSP_CERTID_sk_type(sk))
#define sk_OCSP_CERTID_delete(sk, i) ((OCSP_CERTID
*)OPENSSL_sk_delete(ossl_check_OCSP_CERTID_sk_type(sk),
 (i)))
#define sk_OCSP_CERTID_delete_ptr(sk, ptr) ((OCSP_CERTID
*)OPENSSL_sk_delete_ptr(ossl_check_OCSP_CERTID_sk_type(sk), ossl_check_OCSP_CERTID_type(ptr)))
#define sk_OCSP_CERTID_push(sk, ptr) OPENSSL_sk_push(ossl_check_OCSP_CERTID_sk_type(sk),
ossl_check_OCSP_CERTID_type(ptr))
#define sk_OCSP_CERTID_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_OCSP_CERTID_sk_type(sk),
ossl_check_OCSP_CERTID_type(ptr))
#define sk_OCSP_CERTID_pop(sk) ((OCSP_CERTID
*)OPENSSL_sk_pop(ossl_check_OCSP_CERTID_sk_type(sk)))
#define sk_OCSP_CERTID_shift(sk) ((OCSP_CERTID
*)OPENSSL_sk_shift(ossl_check_OCSP_CERTID_sk_type(sk)))
```

```
#define sk_OCSP_CERTID_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OCSP_CERTID_sk_type(sk),ossl_check_OCSP_CERTID_freefunc_type(freef
unc))
#define sk_OCSP_CERTID_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_OCSP_CERTID_sk_type(sk),
ossl_check_OCSP_CERTID_type(ptr), (idx))
#define sk_OCSP_CERTID_set(sk, idx, ptr) ((OCSP_CERTID
 *)OPENSSL_sk_set(ossl_check_OCSP_CERTID_sk_type(sk), (idx), ossl_check_OCSP_CERTID_type(ptr)))
#define sk_OCSP_CERTID_find(sk, ptr) OPENSSL_sk_find(ossl_check_OCSP_CERTID_sk_type(sk),
ossl_check_OCSP_CERTID_type(ptr))
#define sk_OCSP_CERTID_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_OCSP_CERTID_sk_type(sk),
ossl_check_OCSP_CERTID_type(ptr))
#define sk_OCSP_CERTID_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OCSP_CERTID_sk_type(sk), ossl_check_OCSP_CERTID_type(ptr), pnum)
#define sk_OCSP_CERTID_sort(sk) OPENSSL_sk_sort(ossl_check_OCSP_CERTID_sk_type(sk))
#define sk_OCSP_CERTID_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OCSP_CERTID_sk_type(sk))
#define sk_OCSP_CERTID_dup(sk) ((STACK_OF(OCSP_CERTID)
*)OPENSSL_sk_dup(ossl_check_const_OCSP_CERTID_sk_type(sk)))
#define sk_OCSP_CERTID_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OCSP_CERTID)
*)OPENSSL_sk_deep_copy(ossl_check_const_OCSP_CERTID_sk_type(sk),
ossl_check_OCSP_CERTID_copyfunc_type(copyfunc), ossl_check_OCSP_CERTID_freefunc_type(freefunc)))
#define
 sk_OCSP_CERTID_set_cmp_func(sk, cmp)
((sk_OCSP_CERTID_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OCSP_CERTID_sk_type(sk),
ossl_check_OCSP_CERTID_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(OCSP_ONEREQ, OCSP_ONEREQ, OCSP_ONEREQ)
#define sk_OCSP_ONEREQ_num(sk) OPENSSL_sk_num(ossl_check_const_OCSP_ONEREQ_sk_type(sk))
#define sk_OCSP_ONEREQ_value(sk, idx) ((OCSP_ONEREQ
*)OPENSSL_sk_value(ossl_check_const_OCSP_ONEREQ_sk_type(sk), (idx)))
#define sk_OCSP_ONEREQ_new(cmp) ((STACK_OF(OCSP_ONEREQ)
*)OPENSSL_sk_new(ossl_check_OCSP_ONEREQ_compfunc_type(cmp)))
#define sk_OCSP_ONEREQ_new_null() ((STACK_OF(OCSP_ONEREQ) *)OPENSSL_sk_new_null())
#define sk_OCSP_ONEREQ_new_reserve(cmp, n) ((STACK_OF(OCSP_ONEREQ)
*)OPENSSL_sk_new_reserve(ossl_check_OCSP_ONEREQ_compfunc_type(cmp), (n)))
#define sk_OCSP_ONEREQ_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_OCSP_ONEREQ_sk_type(sk), (n))
#define sk_OCSP_ONEREQ_free(sk) OPENSSL_sk_free(ossl_check_OCSP_ONEREQ_sk_type(sk))
#define
 sk_OCSP_ONEREQ_zero(sk) OPENSSL_sk_zero(ossl_check_OCSP_ONEREQ_sk_type(sk))
#define sk_OCSP_ONEREQ_delete(sk, i) ((OCSP_ONEREQ
*)OPENSSL_sk_delete(ossl_check_OCSP_ONEREQ_sk_type(sk), (i)))
#define sk_OCSP_ONEREQ_delete_ptr(sk, ptr) ((OCSP_ONEREQ
*)OPENSSL_sk_delete_ptr(ossl_check_OCSP_ONEREQ_sk_type(sk), ossl_check_OCSP_ONEREQ_type(ptr)))
#define sk_OCSP_ONEREQ_push(sk, ptr) OPENSSL_sk_push(ossl_check_OCSP_ONEREQ_sk_type(sk),
ossl_check_OCSP_ONEREQ_type(ptr))
#define sk_OCSP_ONEREQ_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_OCSP_ONEREQ_sk_type(sk),
ossl_check_OCSP_ONEREQ_type(ptr))
#define sk_OCSP_ONEREQ_pop(sk) ((OCSP_ONEREQ
*)OPENSSL_sk_pop(ossl_check_OCSP_ONEREQ_sk_type(sk)))
```

```
#define sk_OCSP_ONEREQ_shift(sk) ((OCSP_ONEREQ
*)OPENSSL_sk_shift(ossl_check_OCSP_ONEREQ_sk_type(sk)))
#define sk_OCSP_ONEREQ_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OCSP_ONEREQ_sk_type(sk),ossl_check_OCSP_ONEREQ_freefunc_type(fr
eefunc))
#define sk_OCSP_ONEREQ_insert(sk,
 ptr, idx) OPENSSL_sk_insert(ossl_check_OCSP_ONEREQ_sk_type(sk), ossl_check_OCSP_ONEREQ_type(ptr),
(idx))
#define sk_OCSP_ONEREQ_set(sk, idx, ptr) ((OCSP_ONEREQ
*)OPENSSL_sk_set(ossl_check_OCSP_ONEREQ_sk_type(sk), (idx), ossl_check_OCSP_ONEREQ_type(ptr)))
#define sk_OCSP_ONEREQ_find(sk, ptr) OPENSSL_sk_find(ossl_check_OCSP_ONEREQ_sk_type(sk),
ossl_check_OCSP_ONEREQ_type(ptr))
#define sk_OCSP_ONEREQ_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_OCSP_ONEREQ_sk_type(sk),
ossl_check_OCSP_ONEREQ_type(ptr))
#define sk_OCSP_ONEREQ_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OCSP_ONEREQ_sk_type(sk), ossl_check_OCSP_ONEREQ_type(ptr), pnum)
#define sk_OCSP_ONEREQ_sort(sk) OPENSSL_sk_sort(ossl_check_OCSP_ONEREQ_sk_type(sk))
#define sk_OCSP_ONEREQ_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OCSP_ONEREQ_sk_type(sk))
#define sk_OCSP_ONEREQ_dup(sk) ((STACK_OF(OCSP_ONEREQ)
*)OPENSSL_sk_dup(ossl_check_const_OCSP_ONEREQ_sk_type(sk)))
#define sk_OCSP_ONEREQ_deep_copy(sk, copyfunc, freefunc)
 ((STACK_OF(OCSP_ONEREQ) *)OPENSSL_sk_deep_copy(ossl_check_const_OCSP_ONEREQ_sk_type(sk),
ossl_check_OCSP_ONEREQ_copyfunc_type(copyfunc), ossl_check_OCSP_ONEREQ_freefunc_type(freefunc)))
#define sk_OCSP_ONEREQ_set_cmp_func(sk, cmp)
((sk_OCSP_ONEREQ_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OCSP_ONEREQ_sk_type(sk),
ossl_check_OCSP_ONEREQ_compfunc_type(cmp)))


#  define OCSP_RESPONSE_STATUS_SUCCESSFUL          0
#  define OCSP_RESPONSE_STATUS_MALFORMEDREQUEST     1
#  define OCSP_RESPONSE_STATUS_INTERNALERROR        2
#  define OCSP_RESPONSE_STATUS_TRYLATER             3
#  define OCSP_RESPONSE_STATUS_SIGREQUIRED          5
#  define OCSP_RESPONSE_STATUS_UNAUTHORIZED         6

typedef struct ocsp_resp_bytes_st OCSP_RESPBYTES;

#  define V_OCSP_RESPID_NAME 0
#  define V_OCSP_RESPID_KEY  1

SKM_DEFINE_STACK_OF_INTERNAL(OCSP_RESPID, OCSP_RESPID, OCSP_RESPID)
#define sk_OCSP_RESPID_num(sk) OPENSSL_sk_num(ossl_check_const_OCSP_RESPID_sk_type(sk))
#define sk_OCSP_RESPID_value(sk, idx)
 ((OCSP_RESPID *)OPENSSL_sk_value(ossl_check_const_OCSP_RESPID_sk_type(sk), (idx)))
#define sk_OCSP_RESPID_new(cmp) ((STACK_OF(OCSP_RESPID)
*)OPENSSL_sk_new(ossl_check_OCSP_RESPID_compfunc_type(cmp)))
#define sk_OCSP_RESPID_new_null() ((STACK_OF(OCSP_RESPID) *)OPENSSL_sk_new_null())
```

```
#define sk_OCSP_RESPID_new_reserve(cmp, n) ((STACK_OF(OCSP_RESPID)
*)OPENSSL_sk_new_reserve(ossl_check_OCSP_RESPID_compfunc_type(cmp), (n)))
#define sk_OCSP_RESPID_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_OCSP_RESPID_sk_type(sk), (n))
#define sk_OCSP_RESPID_free(sk) OPENSSL_sk_free(ossl_check_OCSP_RESPID_sk_type(sk))
#define sk_OCSP_RESPID_zero(sk) OPENSSL_sk_zero(ossl_check_OCSP_RESPID_sk_type(sk))
#define sk_OCSP_RESPID_delete(sk, i) ((OCSP_RESPID
*)OPENSSL_sk_delete(ossl_check_OCSP_RESPID_sk_type(sk), (i)))
#define sk_OCSP_RESPID_delete_ptr(sk, ptr) ((OCSP_RESPID
*)OPENSSL_sk_delete_ptr(ossl_check_OCSP_RESPID_sk_type(sk), ossl_check_OCSP_RESPID_type(ptr)))
#define sk_OCSP_RESPID_push(sk, ptr) OPENSSL_sk_push(ossl_check_OCSP_RESPID_sk_type(sk),
 ossl_check_OCSP_RESPID_type(ptr))
#define sk_OCSP_RESPID_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_OCSP_RESPID_sk_type(sk),
ossl_check_OCSP_RESPID_type(ptr))
#define sk_OCSP_RESPID_pop(sk) ((OCSP_RESPID
*)OPENSSL_sk_pop(ossl_check_OCSP_RESPID_sk_type(sk)))
#define sk_OCSP_RESPID_shift(sk) ((OCSP_RESPID
*)OPENSSL_sk_shift(ossl_check_OCSP_RESPID_sk_type(sk)))
#define sk_OCSP_RESPID_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OCSP_RESPID_sk_type(sk),ossl_check_OCSP_RESPID_freefunc_type(freef
unc))
#define sk_OCSP_RESPID_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_OCSP_RESPID_sk_type(sk),
ossl_check_OCSP_RESPID_type(ptr), (idx))
#define sk_OCSP_RESPID_set(sk, idx, ptr) ((OCSP_RESPID
*)OPENSSL_sk_set(ossl_check_OCSP_RESPID_sk_type(sk), (idx), ossl_check_OCSP_RESPID_type(ptr)))
#define sk_OCSP_RESPID_find(sk, ptr) OPENSSL_sk_find(ossl_check_OCSP_RESPID_sk_type(sk),
ossl_check_OCSP_RESPID_type(ptr))
#define sk_OCSP_RESPID_find_ex(sk,
 ptr) OPENSSL_sk_find_ex(ossl_check_OCSP_RESPID_sk_type(sk), ossl_check_OCSP_RESPID_type(ptr))
#define sk_OCSP_RESPID_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OCSP_RESPID_sk_type(sk), ossl_check_OCSP_RESPID_type(ptr), pnum)
#define sk_OCSP_RESPID_sort(sk) OPENSSL_sk_sort(ossl_check_OCSP_RESPID_sk_type(sk))
#define sk_OCSP_RESPID_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_OCSP_RESPID_sk_type(sk))
#define sk_OCSP_RESPID_dup(sk) ((STACK_OF(OCSP_RESPID)
*)OPENSSL_sk_dup(ossl_check_const_OCSP_RESPID_sk_type(sk)))
#define sk_OCSP_RESPID_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OCSP_RESPID)
*)OPENSSL_sk_deep_copy(ossl_check_const_OCSP_RESPID_sk_type(sk),
ossl_check_OCSP_RESPID_copyfunc_type(copyfunc), ossl_check_OCSP_RESPID_freefunc_type(freefunc)))
#define sk_OCSP_RESPID_set_cmp_func(sk, cmp)
((sk_OCSP_RESPID_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OCSP_RESPID_sk_type(sk),
ossl_check_OCSP_RESPID_compfunc_type(cmp)))


typedef struct ocsp_revoked_info_st
 OCSP_REVOKEDINFO;

#  define V_OCSP_CERTSTATUS_GOOD    0
#  define V_OCSP_CERTSTATUS_REVOKED 1
#  define V_OCSP_CERTSTATUS_UNKNOWN 2
```

```
typedef struct ocsp_cert_status_st OCSP_CERTSTATUS;
typedef struct ocsp_single_response_st OCSP_SINGLERESP;

SKM_DEFINE_STACK_OF_INTERNAL(OCSP_SINGLERESP, OCSP_SINGLERESP, OCSP_SINGLERESP)
#define sk_OCSP_SINGLERESP_num(sk)
OPENSSL_sk_num(ossl_check_const_OCSP_SINGLERESP_sk_type(sk))
#define sk_OCSP_SINGLERESP_value(sk, idx) ((OCSP_SINGLERESP
*)OPENSSL_sk_value(ossl_check_const_OCSP_SINGLERESP_sk_type(sk), (idx)))
#define sk_OCSP_SINGLERESP_new(cmp) ((STACK_OF(OCSP_SINGLERESP)
*)OPENSSL_sk_new(ossl_check_OCSP_SINGLERESP_compfunc_type(cmp)))
#define sk_OCSP_SINGLERESP_new_null() ((STACK_OF(OCSP_SINGLERESP) *)OPENSSL_sk_new_null())
#define sk_OCSP_SINGLERESP_new_reserve(cmp, n) ((STACK_OF(OCSP_SINGLERESP)
*)OPENSSL_sk_new_reserve(ossl_check_OCSP_SINGLERESP_compfunc_type(cmp), (n)))
#define sk_OCSP_SINGLERESP_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OCSP_SINGLERESP_sk_type(sk),
 (n))
#define sk_OCSP_SINGLERESP_free(sk) OPENSSL_sk_free(ossl_check_OCSP_SINGLERESP_sk_type(sk))
#define sk_OCSP_SINGLERESP_zero(sk) OPENSSL_sk_zero(ossl_check_OCSP_SINGLERESP_sk_type(sk))
#define sk_OCSP_SINGLERESP_delete(sk, i) ((OCSP_SINGLERESP
*)OPENSSL_sk_delete(ossl_check_OCSP_SINGLERESP_sk_type(sk), (i)))
#define sk_OCSP_SINGLERESP_delete_ptr(sk, ptr) ((OCSP_SINGLERESP
*)OPENSSL_sk_delete_ptr(ossl_check_OCSP_SINGLERESP_sk_type(sk),
ossl_check_OCSP_SINGLERESP_type(ptr)))
#define sk_OCSP_SINGLERESP_push(sk, ptr)
OPENSSL_sk_push(ossl_check_OCSP_SINGLERESP_sk_type(sk), ossl_check_OCSP_SINGLERESP_type(ptr))
#define sk_OCSP_SINGLERESP_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OCSP_SINGLERESP_sk_type(sk),
ossl_check_OCSP_SINGLERESP_type(ptr))
#define sk_OCSP_SINGLERESP_pop(sk) ((OCSP_SINGLERESP
*)OPENSSL_sk_pop(ossl_check_OCSP_SINGLERESP_sk_type(sk)))
#define sk_OCSP_SINGLERESP_shift(sk) ((OCSP_SINGLERESP
*)OPENSSL_sk_shift(ossl_check_OCSP_SINGLERESP_sk_type(sk)))
#define
 sk_OCSP_SINGLERESP_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OCSP_SINGLERESP_sk_type(sk),ossl_check_OCSP_SINGLERESP_freefun
c_type(freefunc))
#define sk_OCSP_SINGLERESP_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OCSP_SINGLERESP_sk_type(sk), ossl_check_OCSP_SINGLERESP_type(ptr),
(idx))
#define sk_OCSP_SINGLERESP_set(sk, idx, ptr) ((OCSP_SINGLERESP
*)OPENSSL_sk_set(ossl_check_OCSP_SINGLERESP_sk_type(sk), (idx),
ossl_check_OCSP_SINGLERESP_type(ptr)))
#define sk_OCSP_SINGLERESP_find(sk, ptr) OPENSSL_sk_find(ossl_check_OCSP_SINGLERESP_sk_type(sk),
ossl_check_OCSP_SINGLERESP_type(ptr))
#define sk_OCSP_SINGLERESP_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OCSP_SINGLERESP_sk_type(sk),
ossl_check_OCSP_SINGLERESP_type(ptr))
```

```
#define sk_OCSP_SINGLERESP_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OCSP_SINGLERESP_sk_type(sk),
ossl_check_OCSP_SINGLERESP_type(ptr), pnum)
#define sk_OCSP_SINGLERESP_sort(sk) OPENSSL_sk_sort(ossl_check_OCSP_SINGLERESP_sk_type(sk))
#define
 sk_OCSP_SINGLERESP_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OCSP_SINGLERESP_sk_type(sk))
#define sk_OCSP_SINGLERESP_dup(sk) ((STACK_OF(OCSP_SINGLERESP)
*)OPENSSL_sk_dup(ossl_check_const_OCSP_SINGLERESP_sk_type(sk)))
#define sk_OCSP_SINGLERESP_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OCSP_SINGLERESP)
*)OPENSSL_sk_deep_copy(ossl_check_const_OCSP_SINGLERESP_sk_type(sk),
ossl_check_OCSP_SINGLERESP_copyfunc_type(copyfunc),
ossl_check_OCSP_SINGLERESP_freefunc_type(freefunc)))
#define sk_OCSP_SINGLERESP_set_cmp_func(sk, cmp)
((sk_OCSP_SINGLERESP_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OCSP_SINGLERESP_sk_type(sk
), ossl_check_OCSP_SINGLERESP_compfunc_type(cmp)))


typedef struct ocsp_response_data_st OCSP_RESPDATA;

typedef struct ocsp_basic_response_st OCSP_BASICRESP;

typedef struct ocsp_crl_id_st OCSP_CRLID;
typedef struct ocsp_service_locator_st OCSP_SERVICELOC;

#  define PEM_STRING_OCSP_REQUEST "OCSP REQUEST"
#  define PEM_STRING_OCSP_RESPONSE "OCSP
 RESPONSE"

#  define d2i_OCSP_REQUEST_bio(bp,p)
ASN1_d2i_bio_of(OCSP_REQUEST,OCSP_REQUEST_new,d2i_OCSP_REQUEST,bp,p)

#  define d2i_OCSP_RESPONSE_bio(bp,p)
ASN1_d2i_bio_of(OCSP_RESPONSE,OCSP_RESPONSE_new,d2i_OCSP_RESPONSE,bp,p)

#  define PEM_read_bio_OCSP_REQUEST(bp,x,cb) (OCSP_REQUEST *)PEM_ASN1_read_bio( \
   (char *(*)())d2i_OCSP_REQUEST,PEM_STRING_OCSP_REQUEST, \
   bp,(char **)(x),cb,NULL)

#  define PEM_read_bio_OCSP_RESPONSE(bp,x,cb) (OCSP_RESPONSE *)PEM_ASN1_read_bio(\
   (char *(*)())d2i_OCSP_RESPONSE,PEM_STRING_OCSP_RESPONSE, \
   bp,(char **)(x),cb,NULL)

#  define PEM_write_bio_OCSP_REQUEST(bp,o) \
  PEM_ASN1_write_bio((int (*)())i2d_OCSP_REQUEST,PEM_STRING_OCSP_REQUEST,\
                  bp,(char *)(o), NULL,NULL,0,NULL,NULL)

#  define PEM_write_bio_OCSP_RESPONSE(bp,o) \
```

```
  PEM_ASN1_write_bio((int (*)())i2d_OCSP_RESPONSE,PEM_STRING_OCSP_RESPONSE,\
                bp,(char *)(o), NULL,NULL,0,NULL,NULL)

#  define i2d_OCSP_RESPONSE_bio(bp,o) ASN1_i2d_bio_of(OCSP_RESPONSE,i2d_OCSP_RESPONSE,bp,o)

#
 define i2d_OCSP_REQUEST_bio(bp,o) ASN1_i2d_bio_of(OCSP_REQUEST,i2d_OCSP_REQUEST,bp,o)

#  define ASN1_BIT_STRING_digest(data,type,md,len) \
     ASN1_item_digest(ASN1_ITEM_rptr(ASN1_BIT_STRING),type,data,md,len)

#  define OCSP_CERTSTATUS_dup(cs)\
           (OCSP_CERTSTATUS*)ASN1_dup((i2d_of_void *)i2d_OCSP_CERTSTATUS,\
           (d2i_of_void *)d2i_OCSP_CERTSTATUS,(char *)(cs))

DECLARE_ASN1_DUP_FUNCTION(OCSP_CERTID)

OSSL_HTTP_REQ_CTX *OCSP_sendreq_new(BIO *io, const char *path,
                        const OCSP_REQUEST *req, int buf_size);
OCSP_RESPONSE *OCSP_sendreq_bio(BIO *b, const char *path, OCSP_REQUEST *req);

#  ifndef OPENSSL_NO_DEPRECATED_3_0
typedef OSSL_HTTP_REQ_CTX OCSP_REQ_CTX;
#   define OCSP_REQ_CTX_new(io, buf_size) \
     OSSL_HTTP_REQ_CTX_new(io, io, buf_size)
#   define OCSP_REQ_CTX_free OSSL_HTTP_REQ_CTX_free
#   define OCSP_REQ_CTX_http(rctx, op, path) \
     (OSSL_HTTP_REQ_CTX_set_expected(rctx,
 NULL, 1 /* asn1 */, 0, 0) && \
      OSSL_HTTP_REQ_CTX_set_request_line(rctx, strcmp(op, "POST") == 0, \
                              NULL, NULL, path))
#   define OCSP_REQ_CTX_add1_header OSSL_HTTP_REQ_CTX_add1_header
#   define OCSP_REQ_CTX_i2d(r, it, req) \
     OSSL_HTTP_REQ_CTX_set1_req(r, "application/ocsp-request", it, req)
#   define OCSP_REQ_CTX_set1_req(r, req) \
     OCSP_REQ_CTX_i2d(r, ASN1_ITEM_rptr(OCSP_REQUEST), (ASN1_VALUE *)(req))
#   define OCSP_REQ_CTX_nbio OSSL_HTTP_REQ_CTX_nbio
#   define OCSP_REQ_CTX_nbio_d2i OSSL_HTTP_REQ_CTX_nbio_d2i
#   define OCSP_sendreq_nbio(p, r) \
     OSSL_HTTP_REQ_CTX_nbio_d2i(r, (ASN1_VALUE **)(p), \
                        ASN1_ITEM_rptr(OCSP_RESPONSE))
#   define OCSP_REQ_CTX_get0_mem_bio OSSL_HTTP_REQ_CTX_get0_mem_bio
#   define OCSP_set_max_response_length OSSL_HTTP_REQ_CTX_set_max_response_length
#  endif

OCSP_CERTID *OCSP_cert_to_id(const EVP_MD *dgst, const X509 *subject,
                      const X509 *issuer);
```

```
OCSP_CERTID *OCSP_cert_id_new(const EVP_MD *dgst,
                              const X509_NAME *issuerName,
                              const ASN1_BIT_STRING *issuerKey,
                              const ASN1_INTEGER *serialNumber);

OCSP_ONEREQ *OCSP_request_add0_id(OCSP_REQUEST *req, OCSP_CERTID *cid);

int OCSP_request_add1_nonce(OCSP_REQUEST *req, unsigned char *val, int len);
int OCSP_basic_add1_nonce(OCSP_BASICRESP *resp, unsigned char *val, int len);
int OCSP_check_nonce(OCSP_REQUEST *req, OCSP_BASICRESP *bs);
int OCSP_copy_nonce(OCSP_BASICRESP *resp, OCSP_REQUEST *req);

int OCSP_request_set1_name(OCSP_REQUEST *req, const X509_NAME *nm);
int OCSP_request_add1_cert(OCSP_REQUEST *req, X509 *cert);

int OCSP_request_sign(OCSP_REQUEST *req,
                      X509 *signer,
                      EVP_PKEY *key,
                      const EVP_MD *dgst,
                      STACK_OF(X509) *certs, unsigned long flags);

int
 OCSP_response_status(OCSP_RESPONSE *resp);
OCSP_BASICRESP *OCSP_response_get1_basic(OCSP_RESPONSE *resp);

const ASN1_OCTET_STRING *OCSP_resp_get0_signature(const OCSP_BASICRESP *bs);
const X509_ALGOR *OCSP_resp_get0_tbs_sigalg(const OCSP_BASICRESP *bs);
const OCSP_RESPDATA *OCSP_resp_get0_respdata(const OCSP_BASICRESP *bs);
int OCSP_resp_get0_signer(OCSP_BASICRESP *bs, X509 **signer,
                          STACK_OF(X509) *extra_certs);

int OCSP_resp_count(OCSP_BASICRESP *bs);
OCSP_SINGLERESP *OCSP_resp_get0(OCSP_BASICRESP *bs, int idx);
const ASN1_GENERALIZEDTIME *OCSP_resp_get0_produced_at(const OCSP_BASICRESP* bs);
const STACK_OF(X509) *OCSP_resp_get0_certs(const OCSP_BASICRESP *bs);
int OCSP_resp_get0_id(const OCSP_BASICRESP *bs,
                      const ASN1_OCTET_STRING **pid,
                      const X509_NAME **pname);
int OCSP_resp_get1_id(const OCSP_BASICRESP *bs,
                      ASN1_OCTET_STRING **pid,
                      X509_NAME **pname);

int OCSP_resp_find(OCSP_BASICRESP
 *bs, OCSP_CERTID *id, int last);
int OCSP_single_get0_status(OCSP_SINGLERESP *single, int *reason,
                            ASN1_GENERALIZEDTIME **revtime,
                            ASN1_GENERALIZEDTIME **thisupd,
                            ASN1_GENERALIZEDTIME **nextupd);
```

```
int OCSP_resp_find_status(OCSP_BASICRESP *bs, OCSP_CERTID *id, int *status,
                    int *reason,
                    ASN1_GENERALIZEDTIME **revtime,
                    ASN1_GENERALIZEDTIME **thisupd,
                    ASN1_GENERALIZEDTIME **nextupd);
int OCSP_check_validity(ASN1_GENERALIZEDTIME *thisupd,
                  ASN1_GENERALIZEDTIME *nextupd, long sec, long maxsec);

int OCSP_request_verify(OCSP_REQUEST *req, STACK_OF(X509) *certs,
                  X509_STORE *store, unsigned long flags);

#  define OCSP_parse_url(url, host, port, path, ssl) \
   OSSL_HTTP_parse_url(url, ssl, NULL, host, port, NULL, path, NULL, NULL)

int OCSP_id_issuer_cmp(const
 OCSP_CERTID *a, const OCSP_CERTID *b);
int OCSP_id_cmp(const OCSP_CERTID *a, const OCSP_CERTID *b);

int OCSP_request_onereq_count(OCSP_REQUEST *req);
OCSP_ONEREQ *OCSP_request_onereq_get0(OCSP_REQUEST *req, int i);
OCSP_CERTID *OCSP_onereq_get0_id(OCSP_ONEREQ *one);
int OCSP_id_get0_info(ASN1_OCTET_STRING **piNameHash, ASN1_OBJECT **pmd,
                ASN1_OCTET_STRING **pikeyHash,
                ASN1_INTEGER **pserial, OCSP_CERTID *cid);
int OCSP_request_is_signed(OCSP_REQUEST *req);
OCSP_RESPONSE *OCSP_response_create(int status, OCSP_BASICRESP *bs);
OCSP_SINGLERESP *OCSP_basic_add1_status(OCSP_BASICRESP *rsp,
                              OCSP_CERTID *cid,
                              int status, int reason,
                              ASN1_TIME *revtime,
                              ASN1_TIME *thisupd,
                              ASN1_TIME *nextupd);
int OCSP_basic_add1_cert(OCSP_BASICRESP *resp,
 X509 *cert);
int OCSP_basic_sign(OCSP_BASICRESP *brsp,
              X509 *signer, EVP_PKEY *key, const EVP_MD *dgst,
              STACK_OF(X509) *certs, unsigned long flags);
int OCSP_basic_sign_ctx(OCSP_BASICRESP *brsp,
                  X509 *signer, EVP_MD_CTX *ctx,
                  STACK_OF(X509) *certs, unsigned long flags);
int OCSP_RESPID_set_by_name(OCSP_RESPID *respid, X509 *cert);
int OCSP_RESPID_set_by_key_ex(OCSP_RESPID *respid, X509 *cert,
                      OSSL_LIB_CTX *libctx, const char *propq);
int OCSP_RESPID_set_by_key(OCSP_RESPID *respid, X509 *cert);
int OCSP_RESPID_match_ex(OCSP_RESPID *respid, X509 *cert, OSSL_LIB_CTX *libctx,
                   const char *propq);
int OCSP_RESPID_match(OCSP_RESPID *respid, X509 *cert);
```

```
X509_EXTENSION *OCSP_crlID_new(const char *url, long *n, char *tim);

X509_EXTENSION *OCSP_accept_responses_new(char **oids);

X509_EXTENSION *OCSP_archive_cutoff_new(char *tim);

X509_EXTENSION *OCSP_url_svcloc_new(const
 X509_NAME *issuer, const char **urls);

int OCSP_REQUEST_get_ext_count(OCSP_REQUEST *x);
int OCSP_REQUEST_get_ext_by_NID(OCSP_REQUEST *x, int nid, int lastpos);
int OCSP_REQUEST_get_ext_by_OBJ(OCSP_REQUEST *x, const ASN1_OBJECT *obj,
                        int lastpos);
int OCSP_REQUEST_get_ext_by_critical(OCSP_REQUEST *x, int crit, int lastpos);
X509_EXTENSION *OCSP_REQUEST_get_ext(OCSP_REQUEST *x, int loc);
X509_EXTENSION *OCSP_REQUEST_delete_ext(OCSP_REQUEST *x, int loc);
void *OCSP_REQUEST_get1_ext_d2i(OCSP_REQUEST *x, int nid, int *crit,
                        int *idx);
int OCSP_REQUEST_add1_ext_i2d(OCSP_REQUEST *x, int nid, void *value, int crit,
                       unsigned long flags);
int OCSP_REQUEST_add_ext(OCSP_REQUEST *x, X509_EXTENSION *ex, int loc);

int OCSP_ONEREQ_get_ext_count(OCSP_ONEREQ *x);
int OCSP_ONEREQ_get_ext_by_NID(OCSP_ONEREQ *x, int nid, int lastpos);
int OCSP_ONEREQ_get_ext_by_OBJ(OCSP_ONEREQ *x, const
 ASN1_OBJECT *obj, int lastpos);
int OCSP_ONEREQ_get_ext_by_critical(OCSP_ONEREQ *x, int crit, int lastpos);
X509_EXTENSION *OCSP_ONEREQ_get_ext(OCSP_ONEREQ *x, int loc);
X509_EXTENSION *OCSP_ONEREQ_delete_ext(OCSP_ONEREQ *x, int loc);
void *OCSP_ONEREQ_get1_ext_d2i(OCSP_ONEREQ *x, int nid, int *crit, int *idx);
int OCSP_ONEREQ_add1_ext_i2d(OCSP_ONEREQ *x, int nid, void *value, int crit,
                      unsigned long flags);
int OCSP_ONEREQ_add_ext(OCSP_ONEREQ *x, X509_EXTENSION *ex, int loc);

int OCSP_BASICRESP_get_ext_count(OCSP_BASICRESP *x);
int OCSP_BASICRESP_get_ext_by_NID(OCSP_BASICRESP *x, int nid, int lastpos);
int OCSP_BASICRESP_get_ext_by_OBJ(OCSP_BASICRESP *x, const ASN1_OBJECT *obj,
                         int lastpos);
int OCSP_BASICRESP_get_ext_by_critical(OCSP_BASICRESP *x, int crit,
                            int lastpos);
X509_EXTENSION *OCSP_BASICRESP_get_ext(OCSP_BASICRESP *x, int loc);
X509_EXTENSION *OCSP_BASICRESP_delete_ext(OCSP_BASICRESP
 *x, int loc);
void *OCSP_BASICRESP_get1_ext_d2i(OCSP_BASICRESP *x, int nid, int *crit,
                         int *idx);
int OCSP_BASICRESP_add1_ext_i2d(OCSP_BASICRESP *x, int nid, void *value,
                        int crit, unsigned long flags);
int OCSP_BASICRESP_add_ext(OCSP_BASICRESP *x, X509_EXTENSION *ex, int loc);
```

```
int OCSP_SINGLERESP_get_ext_count(OCSP_SINGLERESP *x);
int OCSP_SINGLERESP_get_ext_by_NID(OCSP_SINGLERESP *x, int nid, int lastpos);
int OCSP_SINGLERESP_get_ext_by_OBJ(OCSP_SINGLERESP *x, const ASN1_OBJECT *obj,
                                   int lastpos);
int OCSP_SINGLERESP_get_ext_by_critical(OCSP_SINGLERESP *x, int crit,
                                        int lastpos);
X509_EXTENSION *OCSP_SINGLERESP_get_ext(OCSP_SINGLERESP *x, int loc);
X509_EXTENSION *OCSP_SINGLERESP_delete_ext(OCSP_SINGLERESP *x, int loc);
void *OCSP_SINGLERESP_get1_ext_d2i(OCSP_SINGLERESP *x, int nid, int *crit,
                                   int
 *idx);
int OCSP_SINGLERESP_add1_ext_i2d(OCSP_SINGLERESP *x, int nid, void *value,
                                 int crit, unsigned long flags);
int OCSP_SINGLERESP_add_ext(OCSP_SINGLERESP *x, X509_EXTENSION *ex, int loc);
const OCSP_CERTID *OCSP_SINGLERESP_get0_id(const OCSP_SINGLERESP *x);

DECLARE_ASN1_FUNCTIONS(OCSP_SINGLERESP)
DECLARE_ASN1_FUNCTIONS(OCSP_CERTSTATUS)
DECLARE_ASN1_FUNCTIONS(OCSP_REVOKEDINFO)
DECLARE_ASN1_FUNCTIONS(OCSP_BASICRESP)
DECLARE_ASN1_FUNCTIONS(OCSP_RESPDATA)
DECLARE_ASN1_FUNCTIONS(OCSP_RESPID)
DECLARE_ASN1_FUNCTIONS(OCSP_RESPONSE)
DECLARE_ASN1_FUNCTIONS(OCSP_RESPBYTES)
DECLARE_ASN1_FUNCTIONS(OCSP_ONEREQ)
DECLARE_ASN1_FUNCTIONS(OCSP_CERTID)
DECLARE_ASN1_FUNCTIONS(OCSP_REQUEST)
DECLARE_ASN1_FUNCTIONS(OCSP_SIGNATURE)
DECLARE_ASN1_FUNCTIONS(OCSP_REQINFO)
DECLARE_ASN1_FUNCTIONS(OCSP_CRLID)
DECLARE_ASN1_FUNCTIONS(OCSP_SERVICELOC)

const char *OCSP_response_status_str(long s);
const char *OCSP_cert_status_str(long s);
const char *OCSP_crl_reason_str(long s);

int
 OCSP_REQUEST_print(BIO *bp, OCSP_REQUEST *a, unsigned long flags);
int OCSP_RESPONSE_print(BIO *bp, OCSP_RESPONSE *o, unsigned long flags);

int OCSP_basic_verify(OCSP_BASICRESP *bs, STACK_OF(X509) *certs,
                      X509_STORE *st, unsigned long flags);


#  ifdef  __cplusplus
}
#  endif
```

```
# endif /* !defined(OPENSSL_NO_OCSP) */
#endif
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/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/pkcs7.h.in
*
* Copyright 1995-2023 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the Apache License 2.0 (the "License").  You may not use
* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_PKCS7_H
# define OPENSSL_PKCS7_H
# pragma once

# include <openssl/macros.h>
```

```
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_PKCS7_H
# endif

# include <openssl/asn1.h>
# include <openssl/bio.h>
# include <openssl/e_os2.h>

# include <openssl/symhacks.h>
# include <openssl/types.h>
# include <openssl/pkcs7err.h>

#ifdef  __cplusplus
extern "C" {
#endif


/*-
Encryption_ID           DES-CBC
Digest_ID               MD5
Digest_Encryption_ID    rsaEncryption
Key_Encryption_ID       rsaEncryption
*/

typedef struct PKCS7_CTX_st {
   OSSL_LIB_CTX *libctx;
    char *propq;
} PKCS7_CTX;

typedef struct pkcs7_issuer_and_serial_st {
   X509_NAME *issuer;
   ASN1_INTEGER *serial;
} PKCS7_ISSUER_AND_SERIAL;

typedef struct pkcs7_signer_info_st {
   ASN1_INTEGER *version;      /* version 1 */
   PKCS7_ISSUER_AND_SERIAL *issuer_and_serial;
   X509_ALGOR *digest_alg;
   STACK_OF(X509_ATTRIBUTE) *auth_attr; /* [ 0 ] */
   X509_ALGOR *digest_enc_alg; /* confusing name, actually used for signing */
   ASN1_OCTET_STRING *enc_digest; /* confusing name, actually signature */
   STACK_OF(X509_ATTRIBUTE) *unauth_attr; /* [ 1 ] */
   /* The private key to sign with */
   EVP_PKEY *pkey;
   const PKCS7_CTX *ctx;
} PKCS7_SIGNER_INFO;
SKM_DEFINE_STACK_OF_INTERNAL(PKCS7_SIGNER_INFO, PKCS7_SIGNER_INFO,
PKCS7_SIGNER_INFO)
```

```
#define sk_PKCS7_SIGNER_INFO_num(sk)
OPENSSL_sk_num(ossl_check_const_PKCS7_SIGNER_INFO_sk_type(sk))
#define sk_PKCS7_SIGNER_INFO_value(sk, idx) ((PKCS7_SIGNER_INFO
*)OPENSSL_sk_value(ossl_check_const_PKCS7_SIGNER_INFO_sk_type(sk),
 (idx)))
#define sk_PKCS7_SIGNER_INFO_new(cmp) ((STACK_OF(PKCS7_SIGNER_INFO)
*)OPENSSL_sk_new(ossl_check_PKCS7_SIGNER_INFO_compfunc_type(cmp)))
#define sk_PKCS7_SIGNER_INFO_new_null() ((STACK_OF(PKCS7_SIGNER_INFO)
*)OPENSSL_sk_new_null())
#define sk_PKCS7_SIGNER_INFO_new_reserve(cmp, n) ((STACK_OF(PKCS7_SIGNER_INFO)
*)OPENSSL_sk_new_reserve(ossl_check_PKCS7_SIGNER_INFO_compfunc_type(cmp), (n)))
#define sk_PKCS7_SIGNER_INFO_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk), (n))
#define sk_PKCS7_SIGNER_INFO_free(sk)
OPENSSL_sk_free(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk))
#define sk_PKCS7_SIGNER_INFO_zero(sk)
OPENSSL_sk_zero(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk))
#define sk_PKCS7_SIGNER_INFO_delete(sk, i) ((PKCS7_SIGNER_INFO
*)OPENSSL_sk_delete(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk), (i)))
#define sk_PKCS7_SIGNER_INFO_delete_ptr(sk, ptr) ((PKCS7_SIGNER_INFO
*)OPENSSL_sk_delete_ptr(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk),
ossl_check_PKCS7_SIGNER_INFO_type(ptr)))
#define
 sk_PKCS7_SIGNER_INFO_push(sk, ptr) OPENSSL_sk_push(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk),
ossl_check_PKCS7_SIGNER_INFO_type(ptr))
#define sk_PKCS7_SIGNER_INFO_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk),
ossl_check_PKCS7_SIGNER_INFO_type(ptr))
#define sk_PKCS7_SIGNER_INFO_pop(sk) ((PKCS7_SIGNER_INFO
*)OPENSSL_sk_pop(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk)))
#define sk_PKCS7_SIGNER_INFO_shift(sk) ((PKCS7_SIGNER_INFO
*)OPENSSL_sk_shift(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk)))
#define sk_PKCS7_SIGNER_INFO_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk),ossl_check_PKCS7_SIGNER_INFO_fr
eefunc_type(freefunc))
#define sk_PKCS7_SIGNER_INFO_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk),
ossl_check_PKCS7_SIGNER_INFO_type(ptr), (idx))
#define sk_PKCS7_SIGNER_INFO_set(sk, idx, ptr) ((PKCS7_SIGNER_INFO
*)OPENSSL_sk_set(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk), (idx),
ossl_check_PKCS7_SIGNER_INFO_type(ptr)))
#define
 sk_PKCS7_SIGNER_INFO_find(sk, ptr) OPENSSL_sk_find(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk),
ossl_check_PKCS7_SIGNER_INFO_type(ptr))
#define sk_PKCS7_SIGNER_INFO_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk),
ossl_check_PKCS7_SIGNER_INFO_type(ptr))
#define sk_PKCS7_SIGNER_INFO_find_all(sk, ptr, pnum)
```

```
OPENSSL_sk_find_all(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk),
ossl_check_PKCS7_SIGNER_INFO_type(ptr), pnum)
#define sk_PKCS7_SIGNER_INFO_sort(sk) OPENSSL_sk_sort(ossl_check_PKCS7_SIGNER_INFO_sk_type(sk))
#define sk_PKCS7_SIGNER_INFO_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_PKCS7_SIGNER_INFO_sk_type(sk))
#define sk_PKCS7_SIGNER_INFO_dup(sk) ((STACK_OF(PKCS7_SIGNER_INFO)
*)OPENSSL_sk_dup(ossl_check_const_PKCS7_SIGNER_INFO_sk_type(sk)))
#define sk_PKCS7_SIGNER_INFO_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(PKCS7_SIGNER_INFO)
*)OPENSSL_sk_deep_copy(ossl_check_const_PKCS7_SIGNER_INFO_sk_type(sk),
ossl_check_PKCS7_SIGNER_INFO_copyfunc_type(copyfunc),
 ossl_check_PKCS7_SIGNER_INFO_freefunc_type(freefunc)))
#define sk_PKCS7_SIGNER_INFO_set_cmp_func(sk, cmp)
((sk_PKCS7_SIGNER_INFO_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_PKCS7_SIGNER_INFO_sk_ty
pe(sk), ossl_check_PKCS7_SIGNER_INFO_compfunc_type(cmp)))


typedef struct pkcs7_recip_info_st {
   ASN1_INTEGER *version;      /* version 0 */
   PKCS7_ISSUER_AND_SERIAL *issuer_and_serial;
   X509_ALGOR *key_enc_algor;
   ASN1_OCTET_STRING *enc_key;
   X509 *cert;                 /* get the pub-key from this */
   const PKCS7_CTX *ctx;
} PKCS7_RECIP_INFO;
SKM_DEFINE_STACK_OF_INTERNAL(PKCS7_RECIP_INFO, PKCS7_RECIP_INFO, PKCS7_RECIP_INFO)
#define sk_PKCS7_RECIP_INFO_num(sk)
OPENSSL_sk_num(ossl_check_const_PKCS7_RECIP_INFO_sk_type(sk))
#define sk_PKCS7_RECIP_INFO_value(sk, idx) ((PKCS7_RECIP_INFO
*)OPENSSL_sk_value(ossl_check_const_PKCS7_RECIP_INFO_sk_type(sk), (idx)))
#define sk_PKCS7_RECIP_INFO_new(cmp) ((STACK_OF(PKCS7_RECIP_INFO)
*)OPENSSL_sk_new(ossl_check_PKCS7_RECIP_INFO_compfunc_type(cmp)))
#define
 sk_PKCS7_RECIP_INFO_new_null() ((STACK_OF(PKCS7_RECIP_INFO) *)OPENSSL_sk_new_null())
#define sk_PKCS7_RECIP_INFO_new_reserve(cmp, n) ((STACK_OF(PKCS7_RECIP_INFO)
*)OPENSSL_sk_new_reserve(ossl_check_PKCS7_RECIP_INFO_compfunc_type(cmp), (n)))
#define sk_PKCS7_RECIP_INFO_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_PKCS7_RECIP_INFO_sk_type(sk), (n))
#define sk_PKCS7_RECIP_INFO_free(sk) OPENSSL_sk_free(ossl_check_PKCS7_RECIP_INFO_sk_type(sk))
#define sk_PKCS7_RECIP_INFO_zero(sk) OPENSSL_sk_zero(ossl_check_PKCS7_RECIP_INFO_sk_type(sk))
#define sk_PKCS7_RECIP_INFO_delete(sk, i) ((PKCS7_RECIP_INFO
*)OPENSSL_sk_delete(ossl_check_PKCS7_RECIP_INFO_sk_type(sk), (i)))
#define sk_PKCS7_RECIP_INFO_delete_ptr(sk, ptr) ((PKCS7_RECIP_INFO
*)OPENSSL_sk_delete_ptr(ossl_check_PKCS7_RECIP_INFO_sk_type(sk),
ossl_check_PKCS7_RECIP_INFO_type(ptr)))
#define sk_PKCS7_RECIP_INFO_push(sk, ptr)
OPENSSL_sk_push(ossl_check_PKCS7_RECIP_INFO_sk_type(sk), ossl_check_PKCS7_RECIP_INFO_type(ptr))
#define
```

```
 sk_PKCS7_RECIP_INFO_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_PKCS7_RECIP_INFO_sk_type(sk),
ossl_check_PKCS7_RECIP_INFO_type(ptr))
#define sk_PKCS7_RECIP_INFO_pop(sk) ((PKCS7_RECIP_INFO
*)OPENSSL_sk_pop(ossl_check_PKCS7_RECIP_INFO_sk_type(sk)))
#define sk_PKCS7_RECIP_INFO_shift(sk) ((PKCS7_RECIP_INFO
*)OPENSSL_sk_shift(ossl_check_PKCS7_RECIP_INFO_sk_type(sk)))
#define sk_PKCS7_RECIP_INFO_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_PKCS7_RECIP_INFO_sk_type(sk),ossl_check_PKCS7_RECIP_INFO_freefu
nc_type(freefunc))
#define sk_PKCS7_RECIP_INFO_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_PKCS7_RECIP_INFO_sk_type(sk),
ossl_check_PKCS7_RECIP_INFO_type(ptr), (idx))
#define sk_PKCS7_RECIP_INFO_set(sk, idx, ptr) ((PKCS7_RECIP_INFO
*)OPENSSL_sk_set(ossl_check_PKCS7_RECIP_INFO_sk_type(sk), (idx),
ossl_check_PKCS7_RECIP_INFO_type(ptr)))
#define sk_PKCS7_RECIP_INFO_find(sk, ptr)
OPENSSL_sk_find(ossl_check_PKCS7_RECIP_INFO_sk_type(sk), ossl_check_PKCS7_RECIP_INFO_type(ptr))
#define
 sk_PKCS7_RECIP_INFO_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_PKCS7_RECIP_INFO_sk_type(sk),
ossl_check_PKCS7_RECIP_INFO_type(ptr))
#define sk_PKCS7_RECIP_INFO_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_PKCS7_RECIP_INFO_sk_type(sk),
ossl_check_PKCS7_RECIP_INFO_type(ptr), pnum)
#define sk_PKCS7_RECIP_INFO_sort(sk) OPENSSL_sk_sort(ossl_check_PKCS7_RECIP_INFO_sk_type(sk))
#define sk_PKCS7_RECIP_INFO_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_PKCS7_RECIP_INFO_sk_type(sk))
#define sk_PKCS7_RECIP_INFO_dup(sk) ((STACK_OF(PKCS7_RECIP_INFO)
*)OPENSSL_sk_dup(ossl_check_const_PKCS7_RECIP_INFO_sk_type(sk)))
#define sk_PKCS7_RECIP_INFO_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(PKCS7_RECIP_INFO)
*)OPENSSL_sk_deep_copy(ossl_check_const_PKCS7_RECIP_INFO_sk_type(sk),
ossl_check_PKCS7_RECIP_INFO_copyfunc_type(copyfunc),
ossl_check_PKCS7_RECIP_INFO_freefunc_type(freefunc)))
#define sk_PKCS7_RECIP_INFO_set_cmp_func(sk, cmp)
((sk_PKCS7_RECIP_INFO_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_PKCS7_RECIP_INFO_sk_type(s
k),
 ossl_check_PKCS7_RECIP_INFO_compfunc_type(cmp)))



typedef struct pkcs7_signed_st {
   ASN1_INTEGER *version;      /* version 1 */
   STACK_OF(X509_ALGOR) *md_algs; /* md used */
   STACK_OF(X509) *cert;       /* [ 0 ] */
   STACK_OF(X509_CRL) *crl;    /* [ 1 ] */
   STACK_OF(PKCS7_SIGNER_INFO) *signer_info;
   struct pkcs7_st *contents;
} PKCS7_SIGNED;
```

```
/*
* The above structure is very very similar to PKCS7_SIGN_ENVELOPE. How about
* merging the two
*/

typedef struct pkcs7_enc_content_st {
   ASN1_OBJECT *content_type;
   X509_ALGOR *algorithm;
   ASN1_OCTET_STRING *enc_data; /* [ 0 ] */
   const EVP_CIPHER *cipher;
   const PKCS7_CTX *ctx;
} PKCS7_ENC_CONTENT;

typedef struct pkcs7_enveloped_st {
   ASN1_INTEGER *version;      /* version 0 */
   STACK_OF(PKCS7_RECIP_INFO) *recipientinfo;
   PKCS7_ENC_CONTENT *enc_data;
} PKCS7_ENVELOPE;

typedef struct pkcs7_signedandenveloped_st {
    ASN1_INTEGER *version;      /* version 1 */
   STACK_OF(X509_ALGOR) *md_algs; /* md used */
   STACK_OF(X509) *cert;       /* [ 0 ] */
   STACK_OF(X509_CRL) *crl;    /* [ 1 ] */
   STACK_OF(PKCS7_SIGNER_INFO) *signer_info;
   PKCS7_ENC_CONTENT *enc_data;
   STACK_OF(PKCS7_RECIP_INFO) *recipientinfo;
} PKCS7_SIGN_ENVELOPE;

typedef struct pkcs7_digest_st {
   ASN1_INTEGER *version;      /* version 0 */
   X509_ALGOR *md;             /* md used */
   struct pkcs7_st *contents;
   ASN1_OCTET_STRING *digest;
} PKCS7_DIGEST;

typedef struct pkcs7_encrypted_st {
   ASN1_INTEGER *version;      /* version 0 */
   PKCS7_ENC_CONTENT *enc_data;
} PKCS7_ENCRYPT;

typedef struct pkcs7_st {
   /*
    * The following is non NULL if it contains ASN1 encoding of this
    * structure
    */
   unsigned char *asn1;
   long length;
```

```
# define PKCS7_S_HEADER  0
# define PKCS7_S_BODY    1
# define PKCS7_S_TAIL    2
   int state;                /* used during processing */
   int detached;
    ASN1_OBJECT *type;
   /* content as defined by the type */
   /*
    * all encryption/message digests are applied to the 'contents', leaving
    * out the 'type' field.
    */
   union {
      char *ptr;
      /* NID_pkcs7_data */
      ASN1_OCTET_STRING *data;
      /* NID_pkcs7_signed */
      PKCS7_SIGNED *sign;
      /* NID_pkcs7_enveloped */
      PKCS7_ENVELOPE *enveloped;
      /* NID_pkcs7_signedAndEnveloped */
      PKCS7_SIGN_ENVELOPE *signed_and_enveloped;
      /* NID_pkcs7_digest */
      PKCS7_DIGEST *digest;
      /* NID_pkcs7_encrypted */
      PKCS7_ENCRYPT *encrypted;
      /* Anything else */
      ASN1_TYPE *other;
   } d;
   PKCS7_CTX ctx;
} PKCS7;
SKM_DEFINE_STACK_OF_INTERNAL(PKCS7, PKCS7, PKCS7)
#define sk_PKCS7_num(sk) OPENSSL_sk_num(ossl_check_const_PKCS7_sk_type(sk))
#define sk_PKCS7_value(sk, idx) ((PKCS7 *)OPENSSL_sk_value(ossl_check_const_PKCS7_sk_type(sk), (idx)))
#define sk_PKCS7_new(cmp) ((STACK_OF(PKCS7)
*)OPENSSL_sk_new(ossl_check_PKCS7_compfunc_type(cmp)))
#define
 sk_PKCS7_new_null() ((STACK_OF(PKCS7) *)OPENSSL_sk_new_null())
#define sk_PKCS7_new_reserve(cmp, n) ((STACK_OF(PKCS7)
*)OPENSSL_sk_new_reserve(ossl_check_PKCS7_compfunc_type(cmp), (n)))
#define sk_PKCS7_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_PKCS7_sk_type(sk), (n))
#define sk_PKCS7_free(sk) OPENSSL_sk_free(ossl_check_PKCS7_sk_type(sk))
#define sk_PKCS7_zero(sk) OPENSSL_sk_zero(ossl_check_PKCS7_sk_type(sk))
#define sk_PKCS7_delete(sk, i) ((PKCS7 *)OPENSSL_sk_delete(ossl_check_PKCS7_sk_type(sk), (i)))
#define sk_PKCS7_delete_ptr(sk, ptr) ((PKCS7 *)OPENSSL_sk_delete_ptr(ossl_check_PKCS7_sk_type(sk),
ossl_check_PKCS7_type(ptr)))
#define sk_PKCS7_push(sk, ptr) OPENSSL_sk_push(ossl_check_PKCS7_sk_type(sk),
ossl_check_PKCS7_type(ptr))
#define sk_PKCS7_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_PKCS7_sk_type(sk),
```

```
ossl_check_PKCS7_type(ptr))
#define sk_PKCS7_pop(sk) ((PKCS7 *)OPENSSL_sk_pop(ossl_check_PKCS7_sk_type(sk)))
#define
 sk_PKCS7_shift(sk) ((PKCS7 *)OPENSSL_sk_shift(ossl_check_PKCS7_sk_type(sk)))
#define sk_PKCS7_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_PKCS7_sk_type(sk),ossl_check_PKCS7_freefunc_type(freefunc))
#define sk_PKCS7_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_PKCS7_sk_type(sk),
ossl_check_PKCS7_type(ptr), (idx))
#define sk_PKCS7_set(sk, idx, ptr) ((PKCS7 *)OPENSSL_sk_set(ossl_check_PKCS7_sk_type(sk), (idx),
ossl_check_PKCS7_type(ptr)))
#define sk_PKCS7_find(sk, ptr) OPENSSL_sk_find(ossl_check_PKCS7_sk_type(sk),
ossl_check_PKCS7_type(ptr))
#define sk_PKCS7_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_PKCS7_sk_type(sk),
ossl_check_PKCS7_type(ptr))
#define sk_PKCS7_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_PKCS7_sk_type(sk),
ossl_check_PKCS7_type(ptr), pnum)
#define sk_PKCS7_sort(sk) OPENSSL_sk_sort(ossl_check_PKCS7_sk_type(sk))
#define sk_PKCS7_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_PKCS7_sk_type(sk))
#define sk_PKCS7_dup(sk) ((STACK_OF(PKCS7)
 *)OPENSSL_sk_dup(ossl_check_const_PKCS7_sk_type(sk)))
#define sk_PKCS7_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(PKCS7)
*)OPENSSL_sk_deep_copy(ossl_check_const_PKCS7_sk_type(sk),
ossl_check_PKCS7_copyfunc_type(copyfunc), ossl_check_PKCS7_freefunc_type(freefunc)))
#define sk_PKCS7_set_cmp_func(sk, cmp)
((sk_PKCS7_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_PKCS7_sk_type(sk),
ossl_check_PKCS7_compfunc_type(cmp)))



# define PKCS7_OP_SET_DETACHED_SIGNATURE 1
# define PKCS7_OP_GET_DETACHED_SIGNATURE 2

# define PKCS7_get_signed_attributes(si) ((si)->auth_attr)
# define PKCS7_get_attributes(si)        ((si)->unauth_attr)

# define PKCS7_type_is_signed(a) (OBJ_obj2nid((a)->type) == NID_pkcs7_signed)
# define PKCS7_type_is_encrypted(a) (OBJ_obj2nid((a)->type) == NID_pkcs7_encrypted)
# define PKCS7_type_is_enveloped(a) (OBJ_obj2nid((a)->type) == NID_pkcs7_enveloped)
# define PKCS7_type_is_signedAndEnveloped(a) \
        (OBJ_obj2nid((a)->type) == NID_pkcs7_signedAndEnveloped)
#
 define PKCS7_type_is_data(a)   (OBJ_obj2nid((a)->type) == NID_pkcs7_data)
# define PKCS7_type_is_digest(a)   (OBJ_obj2nid((a)->type) == NID_pkcs7_digest)

# define PKCS7_set_detached(p,v) \
        PKCS7_ctrl(p,PKCS7_OP_SET_DETACHED_SIGNATURE,v,NULL)
# define PKCS7_get_detached(p) \
        PKCS7_ctrl(p,PKCS7_OP_GET_DETACHED_SIGNATURE,0,NULL)
```

```
# define PKCS7_is_detached(p7) (PKCS7_type_is_signed(p7) && PKCS7_get_detached(p7))

/* S/MIME related flags */

# define PKCS7_TEXT             0x1
# define PKCS7_NOCERTS          0x2
# define PKCS7_NOSIGS           0x4
# define PKCS7_NOCHAIN          0x8
# define PKCS7_NOINTERN         0x10
# define PKCS7_NOVERIFY         0x20
# define PKCS7_DETACHED         0x40
# define PKCS7_BINARY           0x80
# define PKCS7_NOATTR           0x100
# define PKCS7_NOSMIMECAP       0x200
# define PKCS7_NOOLDMIMETYPE    0x400
# define PKCS7_CRLFEOL          0x800
# define PKCS7_STREAM           0x1000
# define PKCS7_NOCRL
      0x2000
# define PKCS7_PARTIAL          0x4000
# define PKCS7_REUSE_DIGEST     0x8000
# define PKCS7_NO_DUAL_CONTENT  0x10000

/* Flags: for compatibility with older code */

# define SMIME_TEXT      PKCS7_TEXT
# define SMIME_NOCERTS   PKCS7_NOCERTS
# define SMIME_NOSIGS    PKCS7_NOSIGS
# define SMIME_NOCHAIN   PKCS7_NOCHAIN
# define SMIME_NOINTERN  PKCS7_NOINTERN
# define SMIME_NOVERIFY  PKCS7_NOVERIFY
# define SMIME_DETACHED  PKCS7_DETACHED
# define SMIME_BINARY    PKCS7_BINARY
# define SMIME_NOATTR    PKCS7_NOATTR

/* CRLF ASCII canonicalisation */
# define SMIME_ASCIICRLF        0x80000

DECLARE_ASN1_FUNCTIONS(PKCS7_ISSUER_AND_SERIAL)

int PKCS7_ISSUER_AND_SERIAL_digest(PKCS7_ISSUER_AND_SERIAL *data,
                                   const EVP_MD *type, unsigned char *md,
                                   unsigned int *len);
# ifndef OPENSSL_NO_STDIO
PKCS7 *d2i_PKCS7_fp(FILE *fp, PKCS7 **p7);
int i2d_PKCS7_fp(FILE *fp, const PKCS7 *p7);
# endif
```

```
DECLARE_ASN1_DUP_FUNCTION(PKCS7)
PKCS7
 *d2i_PKCS7_bio(BIO *bp, PKCS7 **p7);
int i2d_PKCS7_bio(BIO *bp, const PKCS7 *p7);
int i2d_PKCS7_bio_stream(BIO *out, PKCS7 *p7, BIO *in, int flags);
int PEM_write_bio_PKCS7_stream(BIO *out, PKCS7 *p7, BIO *in, int flags);

DECLARE_ASN1_FUNCTIONS(PKCS7_SIGNER_INFO)
DECLARE_ASN1_FUNCTIONS(PKCS7_RECIP_INFO)
DECLARE_ASN1_FUNCTIONS(PKCS7_SIGNED)
DECLARE_ASN1_FUNCTIONS(PKCS7_ENC_CONTENT)
DECLARE_ASN1_FUNCTIONS(PKCS7_ENVELOPE)
DECLARE_ASN1_FUNCTIONS(PKCS7_SIGN_ENVELOPE)
DECLARE_ASN1_FUNCTIONS(PKCS7_DIGEST)
DECLARE_ASN1_FUNCTIONS(PKCS7_ENCRYPT)
DECLARE_ASN1_FUNCTIONS(PKCS7)
PKCS7 *PKCS7_new_ex(OSSL_LIB_CTX *libctx, const char *propq);

DECLARE_ASN1_ITEM(PKCS7_ATTR_SIGN)
DECLARE_ASN1_ITEM(PKCS7_ATTR_VERIFY)

DECLARE_ASN1_NDEF_FUNCTION(PKCS7)
DECLARE_ASN1_PRINT_FUNCTION(PKCS7)

long PKCS7_ctrl(PKCS7 *p7, int cmd, long larg, char *parg);

int PKCS7_type_is_other(PKCS7 *p7);
int PKCS7_set_type(PKCS7 *p7, int type);
int PKCS7_set0_type_other(PKCS7 *p7, int type, ASN1_TYPE *other);
int
 PKCS7_set_content(PKCS7 *p7, PKCS7 *p7_data);
int PKCS7_SIGNER_INFO_set(PKCS7_SIGNER_INFO *p7i, X509 *x509, EVP_PKEY *pkey,
                          const EVP_MD *dgst);
int PKCS7_SIGNER_INFO_sign(PKCS7_SIGNER_INFO *si);
int PKCS7_add_signer(PKCS7 *p7, PKCS7_SIGNER_INFO *p7i);
int PKCS7_add_certificate(PKCS7 *p7, X509 *x509);
int PKCS7_add_crl(PKCS7 *p7, X509_CRL *x509);
int PKCS7_content_new(PKCS7 *p7, int nid);
int PKCS7_dataVerify(X509_STORE *cert_store, X509_STORE_CTX *ctx,
                     BIO *bio, PKCS7 *p7, PKCS7_SIGNER_INFO *si);
int PKCS7_signatureVerify(BIO *bio, PKCS7 *p7, PKCS7_SIGNER_INFO *si,
                          X509 *x509);

BIO *PKCS7_dataInit(PKCS7 *p7, BIO *bio);
int PKCS7_dataFinal(PKCS7 *p7, BIO *bio);
BIO *PKCS7_dataDecode(PKCS7 *p7, EVP_PKEY *pkey, BIO *in_bio, X509 *pcert);

PKCS7_SIGNER_INFO *PKCS7_add_signature(PKCS7 *p7, X509 *x509,
```

```
                                EVP_PKEY *pkey, const EVP_MD *dgst);
X509 *PKCS7_cert_from_signer_info(PKCS7 *p7,
 PKCS7_SIGNER_INFO *si);
int PKCS7_set_digest(PKCS7 *p7, const EVP_MD *md);
STACK_OF(PKCS7_SIGNER_INFO) *PKCS7_get_signer_info(PKCS7 *p7);

PKCS7_RECIP_INFO *PKCS7_add_recipient(PKCS7 *p7, X509 *x509);
void PKCS7_SIGNER_INFO_get0_algs(PKCS7_SIGNER_INFO *si, EVP_PKEY **pk,
                            X509_ALGOR **pdig, X509_ALGOR **psig);
void PKCS7_RECIP_INFO_get0_alg(PKCS7_RECIP_INFO *ri, X509_ALGOR **penc);
int PKCS7_add_recipient_info(PKCS7 *p7, PKCS7_RECIP_INFO *ri);
int PKCS7_RECIP_INFO_set(PKCS7_RECIP_INFO *p7i, X509 *x509);
int PKCS7_set_cipher(PKCS7 *p7, const EVP_CIPHER *cipher);
int PKCS7_stream(unsigned char ***boundary, PKCS7 *p7);

PKCS7_ISSUER_AND_SERIAL *PKCS7_get_issuer_and_serial(PKCS7 *p7, int idx);
ASN1_OCTET_STRING *PKCS7_get_octet_string(PKCS7 *p7);
ASN1_OCTET_STRING *PKCS7_digest_from_attributes(STACK_OF(X509_ATTRIBUTE) *sk);
int PKCS7_add_signed_attribute(PKCS7_SIGNER_INFO *p7si, int nid, int type,
                         void *data);
int PKCS7_add_attribute(PKCS7_SIGNER_INFO
 *p7si, int nid, int atrtype,
                    void *value);
ASN1_TYPE *PKCS7_get_attribute(const PKCS7_SIGNER_INFO *si, int nid);
ASN1_TYPE *PKCS7_get_signed_attribute(const PKCS7_SIGNER_INFO *si, int nid);
int PKCS7_set_signed_attributes(PKCS7_SIGNER_INFO *p7si,
                          STACK_OF(X509_ATTRIBUTE) *sk);
int PKCS7_set_attributes(PKCS7_SIGNER_INFO *p7si,
                     STACK_OF(X509_ATTRIBUTE) *sk);

PKCS7 *PKCS7_sign(X509 *signcert, EVP_PKEY *pkey, STACK_OF(X509) *certs,
              BIO *data, int flags);
PKCS7 *PKCS7_sign_ex(X509 *signcert, EVP_PKEY *pkey, STACK_OF(X509) *certs,
                 BIO *data, int flags, OSSL_LIB_CTX *libctx,
                 const char *propq);

PKCS7_SIGNER_INFO *PKCS7_sign_add_signer(PKCS7 *p7,
                               X509 *signcert, EVP_PKEY *pkey,
                               const EVP_MD *md, int flags);

int PKCS7_final(PKCS7 *p7, BIO *data,
 int flags);
int PKCS7_verify(PKCS7 *p7, STACK_OF(X509) *certs, X509_STORE *store,
             BIO *indata, BIO *out, int flags);
STACK_OF(X509) *PKCS7_get0_signers(PKCS7 *p7, STACK_OF(X509) *certs,
                           int flags);
PKCS7 *PKCS7_encrypt(STACK_OF(X509) *certs, BIO *in, const EVP_CIPHER *cipher,
                 int flags);
```

```
PKCS7 *PKCS7_encrypt_ex(STACK_OF(X509) *certs, BIO *in,
                    const EVP_CIPHER *cipher, int flags,
                    OSSL_LIB_CTX *libctx, const char *propq);
int PKCS7_decrypt(PKCS7 *p7, EVP_PKEY *pkey, X509 *cert, BIO *data,
              int flags);

int PKCS7_add_attrib_smimecap(PKCS7_SIGNER_INFO *si,
                        STACK_OF(X509_ALGOR) *cap);
STACK_OF(X509_ALGOR) *PKCS7_get_smimecap(PKCS7_SIGNER_INFO *si);
int PKCS7_simple_smimecap(STACK_OF(X509_ALGOR) *sk, int nid, int arg);

int PKCS7_add_attrib_content_type(PKCS7_SIGNER_INFO *si, ASN1_OBJECT *coid);
int PKCS7_add0_attrib_signing_time(PKCS7_SIGNER_INFO
 *si, ASN1_TIME *t);
int PKCS7_add1_attrib_digest(PKCS7_SIGNER_INFO *si,
                        const unsigned char *md, int mdlen);

int SMIME_write_PKCS7(BIO *bio, PKCS7 *p7, BIO *data, int flags);
PKCS7 *SMIME_read_PKCS7_ex(BIO *bio, BIO **bcont, PKCS7 **p7);
PKCS7 *SMIME_read_PKCS7(BIO *bio, BIO **bcont);

BIO *BIO_new_PKCS7(BIO *out, PKCS7 *p7);

# ifdef  __cplusplus
}
# endif
#endif
```

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```
#ifndef SRC_PERMISSION_PERMISSION_H_
#define SRC_PERMISSION_PERMISSION_H_

#if defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS

#include "debug_utils.h"
#include "node_options.h"
#include "permission/child_process_permission.h"
#include "permission/fs_permission.h"
#include "permission/inspector_permission.h"
#include "permission/permission_base.h"
#include "permission/wasi_permission.h"
#include "permission/worker_permission.h"
#include "v8.h"

#include <string_view>
#include <unordered_map>

namespace node {

class Environment;

namespace fs {
class FSReqBase;
```

```
}

namespace permission {

#define THROW_IF_INSUFFICIENT_PERMISSIONS(env, perm_, resource_, ...)          \
 do {                                                                          \
   if (!env->permission()->is_granted(env, perm_, resource_)) [[unlikely]] {  \
     node::permission::Permission::ThrowAccessDenied(                          \
         (env), perm_, resource_);
   \
     return __VA_ARGS__;                                                       \
   }                                                                           \
 } while (0)

#define ASYNC_THROW_IF_INSUFFICIENT_PERMISSIONS(                               \
   env, wrap, perm_, resource_, ...)                                           \
 do {                                                                          \
   if (!env->permission()->is_granted(env, perm_, resource_)) [[unlikely]] {  \
     node::permission::Permission::AsyncThrowAccessDenied(                     \
         (env), wrap, perm_, resource_);                                       \
     return __VA_ARGS__;                                                       \
   }                                                                           \
 } while (0)

class Permission {
public:
 Permission();

 FORCE_INLINE bool is_granted(Environment* env,
                              const PermissionScope permission,
                              const std::string_view& res = "") const {
   if (!enabled_) [[likely]] {
     return true;
   }
   return is_scope_granted(env, permission, res);
 }

 FORCE_INLINE bool enabled() const { return enabled_; }

 static PermissionScope StringToPermission(const std::string& perm);
 static const char* PermissionToString(PermissionScope perm);
 static void ThrowAccessDenied(Environment* env,
                               PermissionScope perm,
                               const std::string_view& res);
 static void AsyncThrowAccessDenied(Environment* env,
                                    fs::FSReqBase* req_wrap,
                                    PermissionScope perm,
                                    const std::string_view& res);
```

```
 // CLI Call
 void Apply(Environment* env,
            const std::vector<std::string>& allow,
            PermissionScope scope);
 void EnablePermissions();

private:
 COLD_NOINLINE bool is_scope_granted(Environment*
 env,
                                 const PermissionScope permission,
                                 const std::string_view& res = "") const {
   auto perm_node = nodes_.find(permission);
   if (perm_node != nodes_.end()) {
     return perm_node->second->is_granted(env, permission, res);
   }
   return false;
 }

 std::unordered_map<PermissionScope, std::shared_ptr<PermissionBase>> nodes_;
 bool enabled_;
};

}  // namespace permission

}  // namespace node

#endif  // defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS
#endif  // SRC_PERMISSION_PERMISSION_H_
```

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```
/*
* WARNING: do not edit!
* Generated by util/mkbuildinf.pl
*
* Copyright 2014-2025 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the Apache License 2.0 (the "License").  You may not use
* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#define PLATFORM "platform: BSD-x86"
#define DATE "built on: Wed Mar  5 20:59:15 2025 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
   'c','o','m','p','i','l','e','r',':',' ','.','.','/','c','o','n',
   'f','i','g','/','f','a','k','e','_','g','c','c','.','p','l',' ',
   '-','f','P','I','C',' ','-','p','t','h','r','e','a','d',' ','-',
   'W','a',',','-','-','n','o','e','x','e','c','s','t','a','c','k',
   ' ','-','W','a','l','l','
 ','-','O','3',' ','-','f','o','m','i',
   't','-','f','r','a','m','e','-','p','o','i','n','t','e','r',' ',
   '-','D','L','_','E','N','D','I','A','N',' ','-','D','O','P','E',
   'N','S','S','L','_','P','I','C',' ','-','D','_','T','H','R','E',
   'A','D','_','S','A','F','E',' ','-','D','_','R','E','E','N','T',
   'R','A','N','T',' ','-','D','O','P','E','N','S','S','L','_','B',
   'U','I','L','D','I','N','G','_','O','P','E','N','S','S','L',' ',
   '-','D','N','D','E','B','U','G','\0'
};
[
 "AGPL-1.0",
 "AGPL-3.0",
 "BSD-2-Clause-FreeBSD",
 "BSD-2-Clause-NetBSD",
 "GFDL-1.1",
 "GFDL-1.2",
 "GFDL-1.3",
 "GPL-1.0",
 "GPL-2.0",
 "GPL-2.0-with-GCC-exception",
 "GPL-2.0-with-autoconf-exception",
 "GPL-2.0-with-bison-exception",
```

"GPL-2.0-with-classpath-exception",
"GPL-2.0-with-font-exception",
"GPL-3.0",
"GPL-3.0-with-GCC-exception",
"GPL-3.0-with-autoconf-exception",
"LGPL-2.0",
"LGPL-2.1",
"LGPL-3.0",
"Net-SNMP",
"Nunit",
"StandardML-NJ",
"bzip2-1.0.5",
"eCos-2.0",
"wxWindows"
]

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```
{
 'variables': {
   'openssl_sources': [
     'openssl/ssl/bio_ssl.c',
     'openssl/ssl/d1_lib.c',
     'openssl/ssl/d1_msg.c',
     'openssl/ssl/d1_srtp.c',
     'openssl/ssl/methods.c',
     'openssl/ssl/pqueue.c',
     'openssl/ssl/s3_enc.c',
     'openssl/ssl/s3_lib.c',
     'openssl/ssl/s3_msg.c',
     'openssl/ssl/ssl_asn1.c',
     'openssl/ssl/ssl_cert.c',
     'openssl/ssl/ssl_ciph.c',
     'openssl/ssl/ssl_conf.c',
     'openssl/ssl/ssl_err.c',
     'openssl/ssl/ssl_err_legacy.c',
     'openssl/ssl/ssl_init.c',
     'openssl/ssl/ssl_lib.c',
     'openssl/ssl/ssl_mcnf.c',
     'openssl/ssl/ssl_rsa.c',
     'openssl/ssl/ssl_rsa_legacy.c',
     'openssl/ssl/ssl_sess.c',
     'openssl/ssl/ssl_stat.c',
     'openssl/ssl/ssl_txt.c',
     'openssl/ssl/ssl_utst.c',
     'openssl/ssl/t1_enc.c',
     'openssl/ssl/t1_lib.c',
     'openssl/ssl/t1_trce.c',
     'openssl/ssl/tls13_enc.c',
     'openssl/ssl/tls_depr.c',
     'openssl/ssl/tls_srp.c',
     'openssl/ssl/record/dtls1_bitmap.c',
      'openssl/ssl/record/rec_layer_d1.c',
     'openssl/ssl/record/rec_layer_s3.c',
     'openssl/ssl/record/ssl3_buffer.c',
     'openssl/ssl/record/ssl3_record.c',
```

'openssl/ssl/record/ssl3_record_tls13.c',
'openssl/ssl/statem/extensions.c',
'openssl/ssl/statem/extensions_clnt.c',
'openssl/ssl/statem/extensions_cust.c',
'openssl/ssl/statem/extensions_srvr.c',
'openssl/ssl/statem/statem.c',
'openssl/ssl/statem/statem_clnt.c',
'openssl/ssl/statem/statem_dtls.c',
'openssl/ssl/statem/statem_lib.c',
'openssl/ssl/statem/statem_srvr.c',
'openssl/crypto/aes/aes_cbc.c',
'openssl/crypto/aes/aes_cfb.c',
'openssl/crypto/aes/aes_core.c',
'openssl/crypto/aes/aes_ecb.c',
'openssl/crypto/aes/aes_ige.c',
'openssl/crypto/aes/aes_misc.c',
'openssl/crypto/aes/aes_ofb.c',
'openssl/crypto/aes/aes_wrap.c',
'openssl/crypto/aria/aria.c',
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  './crypto',
  './crypto/include/internal',
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'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
'direct_dependent_settings': {
```

```
   'include_dirs': ['./include', '.'],
   'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
/*
* WARNING: do not edit!
* Generated by Makefile from providers/common/include/prov/der_wrap.h.in
*
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#include "internal/der.h"

/* Well known OIDs precompiled */

/*
* id-alg-CMS3DESwrap OBJECT IDENTIFIER ::= {
*     iso(1) member-body(2) us(840) rsadsi(113549) pkcs(1) pkcs-9(9) smime(16) alg(3) 6
* }
*/
#define DER_OID_V_id_alg_CMS3DESwrap DER_P_OBJECT, 11, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01,
0x09, 0x10, 0x03, 0x06
#define DER_OID_SZ_id_alg_CMS3DESwrap 13
extern const unsigned char ossl_der_oid_id_alg_CMS3DESwrap[DER_OID_SZ_id_alg_CMS3DESwrap];

/*
* id-aes128-wrap OBJECT IDENTIFIER ::= { aes 5 }
*/
#define DER_OID_V_id_aes128_wrap DER_P_OBJECT,
 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x01, 0x05
#define DER_OID_SZ_id_aes128_wrap 11
extern const unsigned char ossl_der_oid_id_aes128_wrap[DER_OID_SZ_id_aes128_wrap];

/*
* id-aes192-wrap OBJECT IDENTIFIER ::= { aes 25 }
*/
#define DER_OID_V_id_aes192_wrap DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x01, 0x19
#define DER_OID_SZ_id_aes192_wrap 11
extern const unsigned char ossl_der_oid_id_aes192_wrap[DER_OID_SZ_id_aes192_wrap];

/*
* id-aes256-wrap OBJECT IDENTIFIER ::= { aes 45 }
*/
```

```
#define DER_OID_V_id_aes256_wrap DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x01,
0x2D
#define DER_OID_SZ_id_aes256_wrap 11
extern const unsigned char ossl_der_oid_id_aes256_wrap[DER_OID_SZ_id_aes256_wrap];
```

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'openssl/providers/implementations/macs/gmac_prov.c',
'openssl/providers/implementations/macs/hmac_prov.c',
'openssl/providers/implementations/macs/kmac_prov.c',
'openssl/providers/implementations/macs/poly1305_prov.c',
'openssl/providers/implementations/macs/siphash_prov.c',

'openssl/providers/implementations/rands/crngt.c',
'openssl/providers/implementations/rands/drbg.c',
'openssl/providers/implementations/rands/drbg_ctr.c',
'openssl/providers/implementations/rands/drbg_hash.c',
'openssl/providers/implementations/rands/drbg_hmac.c',
'openssl/providers/implementations/rands/seed_src.c',
'openssl/providers/implementations/rands/test_rng.c',
'openssl/providers/implementations/rands/seeding/rand_cpu_x86.c',
'openssl/providers/implementations/rands/seeding/rand_tsc.c',
'openssl/providers/implementations/rands/seeding/rand_unix.c',
'openssl/providers/implementations/rands/seeding/rand_win.c',
'openssl/providers/implementations/signature/dsa_sig.c',
'openssl/providers/implementations/signature/ecdsa_sig.c',
'openssl/providers/implementations/signature/eddsa_sig.c',
'openssl/providers/implementations/signature/mac_legacy_sig.c',
'openssl/providers/implementations/signature/rsa_sig.c',
'openssl/providers/implementations/signature/sm2_sig.c',
'openssl/providers/implementations/storemgmt/file_store.c',
'openssl/providers/implementations/storemgmt/file_store_any2obj.c',
'openssl/ssl/s3_cbc.c',
'openssl/providers/common/der/der_dsa_key.c',
'openssl/providers/common/der/der_dsa_sig.c',
'openssl/providers/common/der/der_ec_key.c',
'openssl/providers/common/der/der_ec_sig.c',
'openssl/providers/common/der/der_ecx_key.c',
'openssl/providers/common/der/der_rsa_key.c',
'openssl/providers/common/provider_ctx.c',
'openssl/providers/common/provider_err.c',
'openssl/providers/implementations/ciphers/ciphercommon.c',
'openssl/providers/implementations/ciphers/ciphercommon_block.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
'openssl/providers/implementations/digests/digestcommon.c',
'openssl/ssl/record/tls_pad.c',
'openssl/providers/implementations/ciphers/cipher_blowfish.c',
'openssl/providers/implementations/ciphers/cipher_blowfish_hw.c',
'openssl/providers/implementations/ciphers/cipher_cast5.c',
'openssl/providers/implementations/ciphers/cipher_cast5_hw.c',
'openssl/providers/implementations/ciphers/cipher_des.c',
'openssl/providers/implementations/ciphers/cipher_des_hw.c',
'openssl/providers/implementations/ciphers/cipher_desx.c',
'openssl/providers/implementations/ciphers/cipher_desx_hw.c',
'openssl/providers/implementations/ciphers/cipher_idea.c',
'openssl/providers/implementations/ciphers/cipher_idea_hw.c',
'openssl/providers/implementations/ciphers/cipher_rc2.c',

```
  'openssl/providers/implementations/ciphers/cipher_rc2_hw.c',
  'openssl/providers/implementations/ciphers/cipher_rc4.c',
  'openssl/providers/implementations/ciphers/cipher_rc4_hmac_md5.c',
  'openssl/providers/implementations/ciphers/cipher_rc4_hmac_md5_hw.c',
  'openssl/providers/implementations/ciphers/cipher_rc4_hw.c',
  'openssl/providers/implementations/ciphers/cipher_seed.c',
  'openssl/providers/implementations/ciphers/cipher_seed_hw.c',
  'openssl/providers/implementations/ciphers/cipher_tdes_common.c',
  'openssl/providers/implementations/digests/md4_prov.c',
  'openssl/providers/implementations/digests/mdc2_prov.c',
  'openssl/providers/implementations/digests/ripemd_prov.c',
  'openssl/providers/implementations/digests/wp_prov.c',
  'openssl/providers/implementations/kdfs/pbkdf1.c',
  'openssl/providers/prov_running.c',
  'openssl/providers/legacyprov.c',
],
'openssl_sources_BSD-x86': [
  './config/archs/BSD-x86/asm_avx2/crypto/aes/aes-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/aes/aesni-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/aes/vpaes-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bf/bf-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/bn-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/co-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/x86-gf2m.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/x86-mont.S',
  './config/archs/BSD-x86/asm_avx2/crypto/camellia/cmll-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/chacha/chacha-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/des/crypt586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/des/des-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/ec/ecp_nistz256-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/x86cpuid.S',
  './config/archs/BSD-x86/asm_avx2/crypto/md5/md5-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/modes/ghash-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/poly1305/poly1305-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/rc4/rc4-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/ripemd/rmd-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha1-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha256-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha512-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/whrlpool/wp-mmx.S',
  './config/archs/BSD-x86/asm_avx2/engines/e_padlock-x86.S',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_rsa_gen.c',
```

```
'./config/archs/BSD-x86/asm_avx2/providers/common/der/der_wrap_gen.c',
    './config/archs/BSD-x86/asm_avx2/providers/legacy.ld',
    './config/archs/BSD-x86/asm_avx2/providers/fips.ld',
  ],
  'openssl_defines_BSD-x86': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'AES_ASM',
    'CMLL_ASM',
    'DES_ASM',
    'ECP_NISTZ256_ASM',
    'GHASH_ASM',
    'MD5_ASM',
    'OPENSSL_BN_ASM_GF2m',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_PART_WORDS',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'PADLOCK_ASM',
    'POLY1305_ASM',
    'RC4_ASM',
    'RMD160_ASM',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86': [
    '-Wa,--noexecstack',
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
},
'include_dirs':
[
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
],
```

```
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
 'direct_dependent_settings': {
   'include_dirs': ['./include', '.'],
   'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
```

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```
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/ess.h.in
*
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/
```

```
#ifndef OPENSSL_ESS_H
# define OPENSSL_ESS_H
# pragma once

# include <openssl/opensslconf.h>

# include <openssl/safestack.h>
# include <openssl/x509.h>
# include <openssl/esserr.h>

# ifdef  __cplusplus
extern "C" {
# endif


typedef struct ESS_issuer_serial ESS_ISSUER_SERIAL;
typedef struct ESS_cert_id ESS_CERT_ID;
typedef struct ESS_signing_cert ESS_SIGNING_CERT;

SKM_DEFINE_STACK_OF_INTERNAL(ESS_CERT_ID, ESS_CERT_ID, ESS_CERT_ID)
#define sk_ESS_CERT_ID_num(sk) OPENSSL_sk_num(ossl_check_const_ESS_CERT_ID_sk_type(sk))
#define sk_ESS_CERT_ID_value(sk, idx) ((ESS_CERT_ID
 *)OPENSSL_sk_value(ossl_check_const_ESS_CERT_ID_sk_type(sk), (idx)))
#define sk_ESS_CERT_ID_new(cmp) ((STACK_OF(ESS_CERT_ID)
*)OPENSSL_sk_new(ossl_check_ESS_CERT_ID_compfunc_type(cmp)))
#define sk_ESS_CERT_ID_new_null() ((STACK_OF(ESS_CERT_ID) *)OPENSSL_sk_new_null())
#define sk_ESS_CERT_ID_new_reserve(cmp, n) ((STACK_OF(ESS_CERT_ID)
*)OPENSSL_sk_new_reserve(ossl_check_ESS_CERT_ID_compfunc_type(cmp), (n)))
#define sk_ESS_CERT_ID_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ESS_CERT_ID_sk_type(sk), (n))
#define sk_ESS_CERT_ID_free(sk) OPENSSL_sk_free(ossl_check_ESS_CERT_ID_sk_type(sk))
#define sk_ESS_CERT_ID_zero(sk) OPENSSL_sk_zero(ossl_check_ESS_CERT_ID_sk_type(sk))
#define sk_ESS_CERT_ID_delete(sk, i) ((ESS_CERT_ID
*)OPENSSL_sk_delete(ossl_check_ESS_CERT_ID_sk_type(sk), (i)))
#define sk_ESS_CERT_ID_delete_ptr(sk, ptr) ((ESS_CERT_ID
*)OPENSSL_sk_delete_ptr(ossl_check_ESS_CERT_ID_sk_type(sk), ossl_check_ESS_CERT_ID_type(ptr)))
#define sk_ESS_CERT_ID_push(sk, ptr) OPENSSL_sk_push(ossl_check_ESS_CERT_ID_sk_type(sk),
 ossl_check_ESS_CERT_ID_type(ptr))
#define sk_ESS_CERT_ID_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_ESS_CERT_ID_sk_type(sk),
ossl_check_ESS_CERT_ID_type(ptr))
#define sk_ESS_CERT_ID_pop(sk) ((ESS_CERT_ID
*)OPENSSL_sk_pop(ossl_check_ESS_CERT_ID_sk_type(sk)))
#define sk_ESS_CERT_ID_shift(sk) ((ESS_CERT_ID
*)OPENSSL_sk_shift(ossl_check_ESS_CERT_ID_sk_type(sk)))
#define sk_ESS_CERT_ID_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ESS_CERT_ID_sk_type(sk),ossl_check_ESS_CERT_ID_freefunc_type(freefu
nc))
#define sk_ESS_CERT_ID_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_ESS_CERT_ID_sk_type(sk),
ossl_check_ESS_CERT_ID_type(ptr), (idx))
```

```
#define sk_ESS_CERT_ID_set(sk, idx, ptr) ((ESS_CERT_ID
*)OPENSSL_sk_set(ossl_check_ESS_CERT_ID_sk_type(sk), (idx), ossl_check_ESS_CERT_ID_type(ptr)))
#define sk_ESS_CERT_ID_find(sk, ptr) OPENSSL_sk_find(ossl_check_ESS_CERT_ID_sk_type(sk),
ossl_check_ESS_CERT_ID_type(ptr))
#define sk_ESS_CERT_ID_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_ESS_CERT_ID_sk_type(sk),
 ossl_check_ESS_CERT_ID_type(ptr))
#define sk_ESS_CERT_ID_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ESS_CERT_ID_sk_type(sk), ossl_check_ESS_CERT_ID_type(ptr), pnum)
#define sk_ESS_CERT_ID_sort(sk) OPENSSL_sk_sort(ossl_check_ESS_CERT_ID_sk_type(sk))
#define sk_ESS_CERT_ID_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_ESS_CERT_ID_sk_type(sk))
#define sk_ESS_CERT_ID_dup(sk) ((STACK_OF(ESS_CERT_ID)
*)OPENSSL_sk_dup(ossl_check_const_ESS_CERT_ID_sk_type(sk)))
#define sk_ESS_CERT_ID_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ESS_CERT_ID)
*)OPENSSL_sk_deep_copy(ossl_check_const_ESS_CERT_ID_sk_type(sk),
ossl_check_ESS_CERT_ID_copyfunc_type(copyfunc), ossl_check_ESS_CERT_ID_freefunc_type(freefunc)))
#define sk_ESS_CERT_ID_set_cmp_func(sk, cmp)
((sk_ESS_CERT_ID_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ESS_CERT_ID_sk_type(sk),
ossl_check_ESS_CERT_ID_compfunc_type(cmp)))



typedef struct ESS_signing_cert_v2_st ESS_SIGNING_CERT_V2;
typedef
 struct ESS_cert_id_v2_st ESS_CERT_ID_V2;

SKM_DEFINE_STACK_OF_INTERNAL(ESS_CERT_ID_V2, ESS_CERT_ID_V2, ESS_CERT_ID_V2)
#define sk_ESS_CERT_ID_V2_num(sk) OPENSSL_sk_num(ossl_check_const_ESS_CERT_ID_V2_sk_type(sk))
#define sk_ESS_CERT_ID_V2_value(sk, idx) ((ESS_CERT_ID_V2
*)OPENSSL_sk_value(ossl_check_const_ESS_CERT_ID_V2_sk_type(sk), (idx)))
#define sk_ESS_CERT_ID_V2_new(cmp) ((STACK_OF(ESS_CERT_ID_V2)
*)OPENSSL_sk_new(ossl_check_ESS_CERT_ID_V2_compfunc_type(cmp)))
#define sk_ESS_CERT_ID_V2_new_null() ((STACK_OF(ESS_CERT_ID_V2) *)OPENSSL_sk_new_null())
#define sk_ESS_CERT_ID_V2_new_reserve(cmp, n) ((STACK_OF(ESS_CERT_ID_V2)
*)OPENSSL_sk_new_reserve(ossl_check_ESS_CERT_ID_V2_compfunc_type(cmp), (n)))
#define sk_ESS_CERT_ID_V2_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ESS_CERT_ID_V2_sk_type(sk),
(n))
#define sk_ESS_CERT_ID_V2_free(sk) OPENSSL_sk_free(ossl_check_ESS_CERT_ID_V2_sk_type(sk))
#define sk_ESS_CERT_ID_V2_zero(sk) OPENSSL_sk_zero(ossl_check_ESS_CERT_ID_V2_sk_type(sk))
#define
 sk_ESS_CERT_ID_V2_delete(sk, i) ((ESS_CERT_ID_V2
*)OPENSSL_sk_delete(ossl_check_ESS_CERT_ID_V2_sk_type(sk), (i)))
#define sk_ESS_CERT_ID_V2_delete_ptr(sk, ptr) ((ESS_CERT_ID_V2
*)OPENSSL_sk_delete_ptr(ossl_check_ESS_CERT_ID_V2_sk_type(sk),
ossl_check_ESS_CERT_ID_V2_type(ptr)))
#define sk_ESS_CERT_ID_V2_push(sk, ptr) OPENSSL_sk_push(ossl_check_ESS_CERT_ID_V2_sk_type(sk),
ossl_check_ESS_CERT_ID_V2_type(ptr))
#define sk_ESS_CERT_ID_V2_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_ESS_CERT_ID_V2_sk_type(sk), ossl_check_ESS_CERT_ID_V2_type(ptr))
```

```
#define sk_ESS_CERT_ID_V2_pop(sk) ((ESS_CERT_ID_V2
*)OPENSSL_sk_pop(ossl_check_ESS_CERT_ID_V2_sk_type(sk)))
#define sk_ESS_CERT_ID_V2_shift(sk) ((ESS_CERT_ID_V2
*)OPENSSL_sk_shift(ossl_check_ESS_CERT_ID_V2_sk_type(sk)))
#define sk_ESS_CERT_ID_V2_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ESS_CERT_ID_V2_sk_type(sk),ossl_check_ESS_CERT_ID_V2_freefunc_ty
pe(freefunc))
#define sk_ESS_CERT_ID_V2_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_ESS_CERT_ID_V2_sk_type(sk),
 ossl_check_ESS_CERT_ID_V2_type(ptr), (idx))
#define sk_ESS_CERT_ID_V2_set(sk, idx, ptr) ((ESS_CERT_ID_V2
*)OPENSSL_sk_set(ossl_check_ESS_CERT_ID_V2_sk_type(sk), (idx),
ossl_check_ESS_CERT_ID_V2_type(ptr)))
#define sk_ESS_CERT_ID_V2_find(sk, ptr) OPENSSL_sk_find(ossl_check_ESS_CERT_ID_V2_sk_type(sk),
ossl_check_ESS_CERT_ID_V2_type(ptr))
#define sk_ESS_CERT_ID_V2_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_ESS_CERT_ID_V2_sk_type(sk), ossl_check_ESS_CERT_ID_V2_type(ptr))
#define sk_ESS_CERT_ID_V2_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ESS_CERT_ID_V2_sk_type(sk), ossl_check_ESS_CERT_ID_V2_type(ptr),
pnum)
#define sk_ESS_CERT_ID_V2_sort(sk) OPENSSL_sk_sort(ossl_check_ESS_CERT_ID_V2_sk_type(sk))
#define sk_ESS_CERT_ID_V2_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_ESS_CERT_ID_V2_sk_type(sk))
#define sk_ESS_CERT_ID_V2_dup(sk) ((STACK_OF(ESS_CERT_ID_V2)
*)OPENSSL_sk_dup(ossl_check_const_ESS_CERT_ID_V2_sk_type(sk)))
#define
 sk_ESS_CERT_ID_V2_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ESS_CERT_ID_V2)
*)OPENSSL_sk_deep_copy(ossl_check_const_ESS_CERT_ID_V2_sk_type(sk),
ossl_check_ESS_CERT_ID_V2_copyfunc_type(copyfunc),
ossl_check_ESS_CERT_ID_V2_freefunc_type(freefunc)))
#define sk_ESS_CERT_ID_V2_set_cmp_func(sk, cmp)
((sk_ESS_CERT_ID_V2_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ESS_CERT_ID_V2_sk_type(sk),
ossl_check_ESS_CERT_ID_V2_compfunc_type(cmp)))


DECLARE_ASN1_ALLOC_FUNCTIONS(ESS_ISSUER_SERIAL)
DECLARE_ASN1_ENCODE_FUNCTIONS_only(ESS_ISSUER_SERIAL, ESS_ISSUER_SERIAL)
DECLARE_ASN1_DUP_FUNCTION(ESS_ISSUER_SERIAL)

DECLARE_ASN1_ALLOC_FUNCTIONS(ESS_CERT_ID)
DECLARE_ASN1_ENCODE_FUNCTIONS_only(ESS_CERT_ID, ESS_CERT_ID)
DECLARE_ASN1_DUP_FUNCTION(ESS_CERT_ID)

DECLARE_ASN1_FUNCTIONS(ESS_SIGNING_CERT)
DECLARE_ASN1_DUP_FUNCTION(ESS_SIGNING_CERT)

DECLARE_ASN1_ALLOC_FUNCTIONS(ESS_CERT_ID_V2)
DECLARE_ASN1_ENCODE_FUNCTIONS_only(ESS_CERT_ID_V2, ESS_CERT_ID_V2)
```

```
DECLARE_ASN1_DUP_FUNCTION(ESS_CERT_ID_V2)

DECLARE_ASN1_FUNCTIONS(ESS_SIGNING_CERT_V2)
DECLARE_ASN1_DUP_FUNCTION(ESS_SIGNING_CERT_V2)

ESS_SIGNING_CERT
 *OSSL_ESS_signing_cert_new_init(const X509 *signcert,
                                const STACK_OF(X509) *certs,
                                int set_issuer_serial);
ESS_SIGNING_CERT_V2 *OSSL_ESS_signing_cert_v2_new_init(const EVP_MD *hash_alg,
                                    const X509 *signcert,
                                    const
                                    STACK_OF(X509) *certs,
                                    int set_issuer_serial);
int OSSL_ESS_check_signing_certs(const ESS_SIGNING_CERT *ss,
                         const ESS_SIGNING_CERT_V2 *ssv2,
                         const STACK_OF(X509) *chain,
                         int require_signing_cert);

# ifdef  __cplusplus
}
# endif
#endif
ISC
{
 'variables': {
   'openssl_sources': [
     'openssl/ssl/bio_ssl.c',
     'openssl/ssl/d1_lib.c',
     'openssl/ssl/d1_msg.c',
     'openssl/ssl/d1_srtp.c',
     'openssl/ssl/methods.c',
     'openssl/ssl/pqueue.c',
     'openssl/ssl/s3_enc.c',
     'openssl/ssl/s3_lib.c',
     'openssl/ssl/s3_msg.c',
     'openssl/ssl/ssl_asn1.c',
     'openssl/ssl/ssl_cert.c',
     'openssl/ssl/ssl_ciph.c',
     'openssl/ssl/ssl_conf.c',
     'openssl/ssl/ssl_err.c',
     'openssl/ssl/ssl_err_legacy.c',
     'openssl/ssl/ssl_init.c',
     'openssl/ssl/ssl_lib.c',
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  './config/archs/BSD-x86/asm/crypto/aes/aesni-x86.S',
  './config/archs/BSD-x86/asm/crypto/aes/vpaes-x86.S',
  './config/archs/BSD-x86/asm/crypto/bf/bf-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/bn-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/co-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.S',
  './config/archs/BSD-x86/asm/crypto/bn/x86-mont.S',
  './config/archs/BSD-x86/asm/crypto/camellia/cmll-x86.S',
  './config/archs/BSD-x86/asm/crypto/chacha/chacha-x86.S',
  './config/archs/BSD-x86/asm/crypto/des/crypt586.S',
  './config/archs/BSD-x86/asm/crypto/des/des-586.S',
  './config/archs/BSD-x86/asm/crypto/ec/ecp_nistz256-x86.S',
  './config/archs/BSD-x86/asm/crypto/x86cpuid.S',
  './config/archs/BSD-x86/asm/crypto/md5/md5-586.S',
  './config/archs/BSD-x86/asm/crypto/modes/ghash-x86.S',
  './config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.S',
   './config/archs/BSD-x86/asm/crypto/rc4/rc4-586.S',
  './config/archs/BSD-x86/asm/crypto/ripemd/rmd-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha1-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha256-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha512-586.S',
  './config/archs/BSD-x86/asm/crypto/whrlpool/wp-mmx.S',
  './config/archs/BSD-x86/asm/engines/e_padlock-x86.S',
  './config/archs/BSD-x86/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86/asm/providers/legacy.ld',
  './config/archs/BSD-x86/asm/providers/fips.ld',
 ],
'openssl_defines_BSD-x86': [
  'NDEBUG',
```

```
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'AES_ASM',
    'CMLL_ASM',
    'DES_ASM',
    'ECP_NISTZ256_ASM',
    'GHASH_ASM',
    'MD5_ASM',
    'OPENSSL_BN_ASM_GF2m',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_PART_WORDS',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'PADLOCK_ASM',
    'POLY1305_ASM',
    'RC4_ASM',
    'RMD160_ASM',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86': [
    '-Wa,--noexecstack',
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
},
'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
],
'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86)'],
```

},
}
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```
#ifndef SRC_PERMISSION_PERMISSION_BASE_H_
#define SRC_PERMISSION_PERMISSION_BASE_H_

#if defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS

#include <map>
#include <string>
#include <string_view>
#include "v8.h"

namespace node {

class Environment;

namespace permission {

#define FILESYSTEM_PERMISSIONS(V)                                   \
 V(FileSystem, "fs", PermissionsRoot)                               \
 V(FileSystemRead, "fs.read", FileSystem)                           \
 V(FileSystemWrite, "fs.write", FileSystem)

#define CHILD_PROCESS_PERMISSIONS(V) V(ChildProcess, "child", PermissionsRoot)

#define WASI_PERMISSIONS(V) V(WASI, "wasi", PermissionsRoot)

#define WORKER_THREADS_PERMISSIONS(V)                               \
 V(WorkerThreads, "worker", PermissionsRoot)

#define INSPECTOR_PERMISSIONS(V) V(Inspector, "inspector", PermissionsRoot)

#define PERMISSIONS(V)                                              \
 FILESYSTEM_PERMISSIONS(V)
                                                                    \
 CHILD_PROCESS_PERMISSIONS(V)                                       \
 WASI_PERMISSIONS(V)                                                \
 WORKER_THREADS_PERMISSIONS(V)                                      \
 INSPECTOR_PERMISSIONS(V)

#define V(name, _, __) k##name,
enum class PermissionScope {
 kPermissionsRoot = -1,
 PERMISSIONS(V) kPermissionsCount
};
```

```
#undef V

class PermissionBase {
public:
 virtual void Apply(Environment* env,
                    const std::vector<std::string>& allow,
                    PermissionScope scope) = 0;
 virtual bool is_granted(Environment* env,
                         PermissionScope perm,
                         const std::string_view& param = "") const = 0;
};

}  // namespace permission

}  // namespace node

#endif  // defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS
#endif  // SRC_PERMISSION_PERMISSION_BASE_H_
```

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```
{
 'variables': {
  'openssl_sources': [
   'openssl/crypto/aes/aes_ecb.c',
   'openssl/crypto/aes/aes_misc.c',
   'openssl/crypto/bn/asm/x86_64-gcc.c',
   'openssl/crypto/bn/bn_add.c',
   'openssl/crypto/bn/bn_blind.c',
   'openssl/crypto/bn/bn_const.c',
   'openssl/crypto/bn/bn_conv.c',
   'openssl/crypto/bn/bn_ctx.c',
   'openssl/crypto/bn/bn_dh.c',
   'openssl/crypto/bn/bn_div.c',
```

'openssl/crypto/bn/bn_exp.c',
'openssl/crypto/bn/bn_exp2.c',
'openssl/crypto/bn/bn_gcd.c',
'openssl/crypto/bn/bn_gf2m.c',
'openssl/crypto/bn/bn_intern.c',
'openssl/crypto/bn/bn_kron.c',
'openssl/crypto/bn/bn_lib.c',
'openssl/crypto/bn/bn_mod.c',
'openssl/crypto/bn/bn_mont.c',
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'openssl/crypto/bn/bn_mul.c',
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'openssl/crypto/bn/bn_rand.c',
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'openssl/crypto/bn/bn_rsa_fips186_4.c',
'openssl/crypto/bn/bn_shift.c',
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'openssl/crypto/bn/bn_word.c',
'openssl/crypto/bn/rsaz_exp.c',
'openssl/crypto/bn/rsaz_exp_x2.c',
'openssl/crypto/buffer/buffer.c',
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'openssl/crypto/lhash/lhash.c',
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'openssl/crypto/bsearch.c',
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'openssl/crypto/core_algorithm.c',
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'openssl/crypto/sha/sha256.c',
'openssl/crypto/sha/sha3.c',
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'openssl/providers/common/der/der_rsa_sig.c',
'openssl/providers/common/bio_prov.c',
'openssl/providers/common/capabilities.c',
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'openssl/providers/common/provider_seeding.c',
'openssl/providers/common/provider_util.c',
'openssl/providers/common/securitycheck.c',
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'openssl/providers/fips/self_test.c',
'openssl/providers/fips/self_test_kats.c',
'openssl/providers/implementations/asymciphers/rsa_enc.c',
'openssl/providers/implementations/ciphers/cipher_aes.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha1_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha256_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_ccm.c',
'openssl/providers/implementations/ciphers/cipher_aes_ccm_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_gcm.c',
'openssl/providers/implementations/ciphers/cipher_aes_gcm_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_hw.c',

'openssl/providers/implementations/ciphers/cipher_aes_ocb.c',
'openssl/providers/implementations/ciphers/cipher_aes_ocb_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_wrp.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts_fips.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts_hw.c',
'openssl/providers/implementations/ciphers/cipher_cts.c',
'openssl/providers/implementations/ciphers/cipher_tdes.c',
'openssl/providers/implementations/ciphers/cipher_tdes_common.c',
'openssl/providers/implementations/ciphers/cipher_tdes_hw.c',
'openssl/providers/implementations/digests/sha2_prov.c',
'openssl/providers/implementations/digests/sha3_prov.c',
'openssl/providers/implementations/exchange/dh_exch.c',
'openssl/providers/implementations/exchange/ecdh_exch.c',
'openssl/providers/implementations/exchange/ecx_exch.c',
'openssl/providers/implementations/exchange/kdf_exch.c',
'openssl/providers/implementations/kdfs/hkdf.c',
'openssl/providers/implementations/kdfs/kbkdf.c',
'openssl/providers/implementations/kdfs/pbkdf2.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
'openssl/providers/implementations/kdfs/tls1_prf.c',
'openssl/providers/implementations/kdfs/x942kdf.c',
'openssl/providers/implementations/kem/rsa_kem.c',
'openssl/providers/implementations/keymgmt/dh_kmgmt.c',
'openssl/providers/implementations/keymgmt/dsa_kmgmt.c',
'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',
'openssl/providers/implementations/keymgmt/kdf_legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/mac_legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/rsa_kmgmt.c',
'openssl/providers/implementations/macs/cmac_prov.c',
'openssl/providers/implementations/macs/gmac_prov.c',
'openssl/providers/implementations/macs/hmac_prov.c',
'openssl/providers/implementations/macs/kmac_prov.c',
'openssl/providers/implementations/rands/crngt.c',
'openssl/providers/implementations/rands/drbg.c',
'openssl/providers/implementations/rands/drbg_ctr.c',
'openssl/providers/implementations/rands/drbg_hash.c',
'openssl/providers/implementations/rands/drbg_hmac.c',
'openssl/providers/implementations/rands/test_rng.c',
'openssl/providers/implementations/signature/dsa_sig.c',
'openssl/providers/implementations/signature/ecdsa_sig.c',
'openssl/providers/implementations/signature/eddsa_sig.c',
'openssl/providers/implementations/signature/mac_legacy_sig.c',
'openssl/providers/implementations/signature/rsa_sig.c',
'openssl/ssl/s3_cbc.c',

```
  'openssl/providers/common/der/der_dsa_key.c',
  'openssl/providers/common/der/der_dsa_sig.c',
  'openssl/providers/common/der/der_ec_key.c',
  'openssl/providers/common/der/der_ec_sig.c',
  'openssl/providers/common/der/der_ecx_key.c',
  'openssl/providers/common/der/der_rsa_key.c',
  'openssl/providers/common/provider_ctx.c',
  'openssl/providers/common/provider_err.c',
  'openssl/providers/implementations/ciphers/ciphercommon.c',
  'openssl/providers/implementations/ciphers/ciphercommon_block.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
   'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
  'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
  'openssl/providers/implementations/digests/digestcommon.c',
  'openssl/ssl/record/tls_pad.c',
  'openssl/providers/fips/fips_entry.c',

 ],
 'openssl_sources_BSD-x86_64': [
  './config/archs/BSD-x86_64/asm/crypto/aes/aes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/bsaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx2.s',
   './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx512.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
  './config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
  './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-x86_64.s',
   './config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-x86_64.s',
```

```
  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/whrlpool/wp-x86_64.s',
  './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_rsa_gen.c',
   './config/archs/BSD-x86_64/asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86_64/asm/providers/legacy.ld',
  './config/archs/BSD-x86_64/asm/providers/fips.ld',

],
'openssl_defines_BSD-x86_64': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_BUILDING_OPENSSL',
  'AES_ASM',
  'BSAES_ASM',
  'ECP_NISTZ256_ASM',
  'FIPS_MODULE',
  'GHASH_ASM',
  'KECCAK1600_ASM',
  'OPENSSL_BN_ASM_GF2m',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'VPAES_ASM',
  'X25519_ASM',
  'FIPS_MODULE',
],
'openssl_cflags_BSD-x86_64': [
  '-Wa,--noexecstack',
  '-Wall -O3',
  '-pthread',
  '-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
  '-pthread',
],
'linker_script': ''
```

```
 },
 'include_dirs': [
   '.',
   './include',
   './crypto',
    './crypto/include/internal',
   './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags': ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],

 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
 'direct_dependent_settings': {
   'include_dirs': ['./include', '.'],
   'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
```

version 1.2.12, March 27th, 2022

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```
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/x509.h.in
*
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*
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* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_X509_H
# define OPENSSL_X509_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_X509_H
# endif

# include <openssl/e_os2.h>
# include <openssl/types.h>
# include <openssl/symhacks.h>
# include <openssl/buffer.h>
# include <openssl/evp.h>
# include <openssl/bio.h>
# include <openssl/asn1.h>
# include <openssl/safestack.h>
# include <openssl/ec.h>
```

```
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  include <openssl/rsa.h>
#  include <openssl/dsa.h>
#
  include <openssl/dh.h>
# endif

# include <openssl/sha.h>
# include <openssl/x509err.h>

#ifdef  __cplusplus
extern "C" {
#endif

/* Needed stacks for types defined in other headers */
SKM_DEFINE_STACK_OF_INTERNAL(X509_NAME, X509_NAME, X509_NAME)
#define sk_X509_NAME_num(sk) OPENSSL_sk_num(ossl_check_const_X509_NAME_sk_type(sk))
#define sk_X509_NAME_value(sk, idx) ((X509_NAME
*)OPENSSL_sk_value(ossl_check_const_X509_NAME_sk_type(sk), (idx)))
#define sk_X509_NAME_new(cmp) ((STACK_OF(X509_NAME)
*)OPENSSL_sk_new(ossl_check_X509_NAME_compfunc_type(cmp)))
#define sk_X509_NAME_new_null() ((STACK_OF(X509_NAME) *)OPENSSL_sk_new_null())
#define sk_X509_NAME_new_reserve(cmp, n) ((STACK_OF(X509_NAME)
*)OPENSSL_sk_new_reserve(ossl_check_X509_NAME_compfunc_type(cmp), (n)))
#define sk_X509_NAME_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_NAME_sk_type(sk), (n))
#define sk_X509_NAME_free(sk) OPENSSL_sk_free(ossl_check_X509_NAME_sk_type(sk))
#define sk_X509_NAME_zero(sk) OPENSSL_sk_zero(ossl_check_X509_NAME_sk_type(sk))
#define
 sk_X509_NAME_delete(sk, i) ((X509_NAME *)OPENSSL_sk_delete(ossl_check_X509_NAME_sk_type(sk),
(i)))
#define sk_X509_NAME_delete_ptr(sk, ptr) ((X509_NAME
*)OPENSSL_sk_delete_ptr(ossl_check_X509_NAME_sk_type(sk), ossl_check_X509_NAME_type(ptr)))
#define sk_X509_NAME_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_NAME_sk_type(sk),
ossl_check_X509_NAME_type(ptr))
#define sk_X509_NAME_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_NAME_sk_type(sk),
ossl_check_X509_NAME_type(ptr))
#define sk_X509_NAME_pop(sk) ((X509_NAME *)OPENSSL_sk_pop(ossl_check_X509_NAME_sk_type(sk)))
#define sk_X509_NAME_shift(sk) ((X509_NAME *)OPENSSL_sk_shift(ossl_check_X509_NAME_sk_type(sk)))
#define sk_X509_NAME_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_NAME_sk_type(sk),ossl_check_X509_NAME_freefunc_type(freefunc)
)
#define sk_X509_NAME_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_NAME_sk_type(sk),
ossl_check_X509_NAME_type(ptr), (idx))
#define sk_X509_NAME_set(sk,
 idx, ptr) ((X509_NAME *)OPENSSL_sk_set(ossl_check_X509_NAME_sk_type(sk), (idx),
ossl_check_X509_NAME_type(ptr)))
#define sk_X509_NAME_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_NAME_sk_type(sk),
ossl_check_X509_NAME_type(ptr))
```

```
#define sk_X509_NAME_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_NAME_sk_type(sk),
ossl_check_X509_NAME_type(ptr))
#define sk_X509_NAME_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_X509_NAME_sk_type(sk),
ossl_check_X509_NAME_type(ptr), pnum)
#define sk_X509_NAME_sort(sk) OPENSSL_sk_sort(ossl_check_X509_NAME_sk_type(sk))
#define sk_X509_NAME_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_X509_NAME_sk_type(sk))
#define sk_X509_NAME_dup(sk) ((STACK_OF(X509_NAME)
*)OPENSSL_sk_dup(ossl_check_const_X509_NAME_sk_type(sk)))
#define sk_X509_NAME_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_NAME)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_NAME_sk_type(sk),
ossl_check_X509_NAME_copyfunc_type(copyfunc), ossl_check_X509_NAME_freefunc_type(freefunc)))
#define
 sk_X509_NAME_set_cmp_func(sk, cmp)
((sk_X509_NAME_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_NAME_sk_type(sk),
ossl_check_X509_NAME_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(X509, X509, X509)
#define sk_X509_num(sk) OPENSSL_sk_num(ossl_check_const_X509_sk_type(sk))
#define sk_X509_value(sk, idx) ((X509 *)OPENSSL_sk_value(ossl_check_const_X509_sk_type(sk), (idx)))
#define sk_X509_new(cmp) ((STACK_OF(X509) *)OPENSSL_sk_new(ossl_check_X509_compfunc_type(cmp)))
#define sk_X509_new_null() ((STACK_OF(X509) *)OPENSSL_sk_new_null())
#define sk_X509_new_reserve(cmp, n) ((STACK_OF(X509)
*)OPENSSL_sk_new_reserve(ossl_check_X509_compfunc_type(cmp), (n)))
#define sk_X509_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_sk_type(sk), (n))
#define sk_X509_free(sk) OPENSSL_sk_free(ossl_check_X509_sk_type(sk))
#define sk_X509_zero(sk) OPENSSL_sk_zero(ossl_check_X509_sk_type(sk))
#define sk_X509_delete(sk, i) ((X509 *)OPENSSL_sk_delete(ossl_check_X509_sk_type(sk),
 (i)))
#define sk_X509_delete_ptr(sk, ptr) ((X509 *)OPENSSL_sk_delete_ptr(ossl_check_X509_sk_type(sk),
ossl_check_X509_type(ptr)))
#define sk_X509_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_sk_type(sk), ossl_check_X509_type(ptr))
#define sk_X509_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_sk_type(sk),
ossl_check_X509_type(ptr))
#define sk_X509_pop(sk) ((X509 *)OPENSSL_sk_pop(ossl_check_X509_sk_type(sk)))
#define sk_X509_shift(sk) ((X509 *)OPENSSL_sk_shift(ossl_check_X509_sk_type(sk)))
#define sk_X509_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_sk_type(sk),ossl_check_X509_freefunc_type(freefunc))
#define sk_X509_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_sk_type(sk),
ossl_check_X509_type(ptr), (idx))
#define sk_X509_set(sk, idx, ptr) ((X509 *)OPENSSL_sk_set(ossl_check_X509_sk_type(sk), (idx),
ossl_check_X509_type(ptr)))
#define sk_X509_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_sk_type(sk), ossl_check_X509_type(ptr))
#define sk_X509_find_ex(sk,
 ptr) OPENSSL_sk_find_ex(ossl_check_X509_sk_type(sk), ossl_check_X509_type(ptr))
#define sk_X509_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_X509_sk_type(sk),
ossl_check_X509_type(ptr), pnum)
#define sk_X509_sort(sk) OPENSSL_sk_sort(ossl_check_X509_sk_type(sk))
#define sk_X509_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_X509_sk_type(sk))
#define sk_X509_dup(sk) ((STACK_OF(X509) *)OPENSSL_sk_dup(ossl_check_const_X509_sk_type(sk)))
```

```
#define sk_X509_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_sk_type(sk), ossl_check_X509_copyfunc_type(copyfunc),
ossl_check_X509_freefunc_type(freefunc)))
#define sk_X509_set_cmp_func(sk, cmp)
((sk_X509_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_sk_type(sk),
ossl_check_X509_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(X509_REVOKED, X509_REVOKED, X509_REVOKED)
#define sk_X509_REVOKED_num(sk) OPENSSL_sk_num(ossl_check_const_X509_REVOKED_sk_type(sk))
#define sk_X509_REVOKED_value(sk,
 idx) ((X509_REVOKED *)OPENSSL_sk_value(ossl_check_const_X509_REVOKED_sk_type(sk), (idx)))
#define sk_X509_REVOKED_new(cmp) ((STACK_OF(X509_REVOKED)
*)OPENSSL_sk_new(ossl_check_X509_REVOKED_compfunc_type(cmp)))
#define sk_X509_REVOKED_new_null() ((STACK_OF(X509_REVOKED) *)OPENSSL_sk_new_null())
#define sk_X509_REVOKED_new_reserve(cmp, n) ((STACK_OF(X509_REVOKED)
*)OPENSSL_sk_new_reserve(ossl_check_X509_REVOKED_compfunc_type(cmp), (n)))
#define sk_X509_REVOKED_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_REVOKED_sk_type(sk),
(n))
#define sk_X509_REVOKED_free(sk) OPENSSL_sk_free(ossl_check_X509_REVOKED_sk_type(sk))
#define sk_X509_REVOKED_zero(sk) OPENSSL_sk_zero(ossl_check_X509_REVOKED_sk_type(sk))
#define sk_X509_REVOKED_delete(sk, i) ((X509_REVOKED
*)OPENSSL_sk_delete(ossl_check_X509_REVOKED_sk_type(sk), (i)))
#define sk_X509_REVOKED_delete_ptr(sk, ptr) ((X509_REVOKED
*)OPENSSL_sk_delete_ptr(ossl_check_X509_REVOKED_sk_type(sk), ossl_check_X509_REVOKED_type(ptr)))
#define sk_X509_REVOKED_push(sk,
 ptr) OPENSSL_sk_push(ossl_check_X509_REVOKED_sk_type(sk), ossl_check_X509_REVOKED_type(ptr))
#define sk_X509_REVOKED_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_REVOKED_sk_type(sk),
ossl_check_X509_REVOKED_type(ptr))
#define sk_X509_REVOKED_pop(sk) ((X509_REVOKED
*)OPENSSL_sk_pop(ossl_check_X509_REVOKED_sk_type(sk)))
#define sk_X509_REVOKED_shift(sk) ((X509_REVOKED
*)OPENSSL_sk_shift(ossl_check_X509_REVOKED_sk_type(sk)))
#define sk_X509_REVOKED_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_REVOKED_sk_type(sk),ossl_check_X509_REVOKED_freefunc_type(
freefunc))
#define sk_X509_REVOKED_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_REVOKED_sk_type(sk),
ossl_check_X509_REVOKED_type(ptr), (idx))
#define sk_X509_REVOKED_set(sk, idx, ptr) ((X509_REVOKED
*)OPENSSL_sk_set(ossl_check_X509_REVOKED_sk_type(sk), (idx), ossl_check_X509_REVOKED_type(ptr)))
#define sk_X509_REVOKED_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_REVOKED_sk_type(sk),
ossl_check_X509_REVOKED_type(ptr))
#define
 sk_X509_REVOKED_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_REVOKED_sk_type(sk),
ossl_check_X509_REVOKED_type(ptr))
#define sk_X509_REVOKED_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509_REVOKED_sk_type(sk), ossl_check_X509_REVOKED_type(ptr),
pnum)
#define sk_X509_REVOKED_sort(sk) OPENSSL_sk_sort(ossl_check_X509_REVOKED_sk_type(sk))
#define sk_X509_REVOKED_is_sorted(sk)
```

```
OPENSSL_sk_is_sorted(ossl_check_const_X509_REVOKED_sk_type(sk))
#define sk_X509_REVOKED_dup(sk) ((STACK_OF(X509_REVOKED)
*)OPENSSL_sk_dup(ossl_check_const_X509_REVOKED_sk_type(sk)))
#define sk_X509_REVOKED_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_REVOKED)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_REVOKED_sk_type(sk),
ossl_check_X509_REVOKED_copyfunc_type(copyfunc),
ossl_check_X509_REVOKED_freefunc_type(freefunc)))
#define sk_X509_REVOKED_set_cmp_func(sk, cmp)
((sk_X509_REVOKED_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_REVOKED_sk_type(sk),
ossl_check_X509_REVOKED_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(X509_CRL,
 X509_CRL, X509_CRL)
#define sk_X509_CRL_num(sk) OPENSSL_sk_num(ossl_check_const_X509_CRL_sk_type(sk))
#define sk_X509_CRL_value(sk, idx) ((X509_CRL
*)OPENSSL_sk_value(ossl_check_const_X509_CRL_sk_type(sk), (idx)))
#define sk_X509_CRL_new(cmp) ((STACK_OF(X509_CRL)
*)OPENSSL_sk_new(ossl_check_X509_CRL_compfunc_type(cmp)))
#define sk_X509_CRL_new_null() ((STACK_OF(X509_CRL) *)OPENSSL_sk_new_null())
#define sk_X509_CRL_new_reserve(cmp, n) ((STACK_OF(X509_CRL)
*)OPENSSL_sk_new_reserve(ossl_check_X509_CRL_compfunc_type(cmp), (n)))
#define sk_X509_CRL_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_CRL_sk_type(sk), (n))
#define sk_X509_CRL_free(sk) OPENSSL_sk_free(ossl_check_X509_CRL_sk_type(sk))
#define sk_X509_CRL_zero(sk) OPENSSL_sk_zero(ossl_check_X509_CRL_sk_type(sk))
#define sk_X509_CRL_delete(sk, i) ((X509_CRL *)OPENSSL_sk_delete(ossl_check_X509_CRL_sk_type(sk),
(i)))
#define sk_X509_CRL_delete_ptr(sk, ptr) ((X509_CRL
 *)OPENSSL_sk_delete_ptr(ossl_check_X509_CRL_sk_type(sk), ossl_check_X509_CRL_type(ptr)))
#define sk_X509_CRL_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_CRL_sk_type(sk),
ossl_check_X509_CRL_type(ptr))
#define sk_X509_CRL_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_CRL_sk_type(sk),
ossl_check_X509_CRL_type(ptr))
#define sk_X509_CRL_pop(sk) ((X509_CRL *)OPENSSL_sk_pop(ossl_check_X509_CRL_sk_type(sk)))
#define sk_X509_CRL_shift(sk) ((X509_CRL *)OPENSSL_sk_shift(ossl_check_X509_CRL_sk_type(sk)))
#define sk_X509_CRL_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_CRL_sk_type(sk),ossl_check_X509_CRL_freefunc_type(freefunc))
#define sk_X509_CRL_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_CRL_sk_type(sk),
ossl_check_X509_CRL_type(ptr), (idx))
#define sk_X509_CRL_set(sk, idx, ptr) ((X509_CRL *)OPENSSL_sk_set(ossl_check_X509_CRL_sk_type(sk),
(idx), ossl_check_X509_CRL_type(ptr)))
#define sk_X509_CRL_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_CRL_sk_type(sk),
 ossl_check_X509_CRL_type(ptr))
#define sk_X509_CRL_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_CRL_sk_type(sk),
ossl_check_X509_CRL_type(ptr))
#define sk_X509_CRL_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_X509_CRL_sk_type(sk),
ossl_check_X509_CRL_type(ptr), pnum)
#define sk_X509_CRL_sort(sk) OPENSSL_sk_sort(ossl_check_X509_CRL_sk_type(sk))
#define sk_X509_CRL_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_X509_CRL_sk_type(sk))
#define sk_X509_CRL_dup(sk) ((STACK_OF(X509_CRL)
```

```
*)OPENSSL_sk_dup(ossl_check_const_X509_CRL_sk_type(sk)))
#define sk_X509_CRL_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_CRL)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_CRL_sk_type(sk),
ossl_check_X509_CRL_copyfunc_type(copyfunc), ossl_check_X509_CRL_freefunc_type(freefunc)))
#define sk_X509_CRL_set_cmp_func(sk, cmp)
((sk_X509_CRL_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_CRL_sk_type(sk),
ossl_check_X509_CRL_compfunc_type(cmp)))


/* Flags for X509_get_signature_info()
 */
/* Signature info is valid */
# define X509_SIG_INFO_VALID     0x1
/* Signature is suitable for TLS use */
# define X509_SIG_INFO_TLS       0x2

# define X509_FILETYPE_PEM       1
# define X509_FILETYPE_ASN1      2
# define X509_FILETYPE_DEFAULT   3

# define X509v3_KU_DIGITAL_SIGNATURE     0x0080
# define X509v3_KU_NON_REPUDIATION       0x0040
# define X509v3_KU_KEY_ENCIPHERMENT      0x0020
# define X509v3_KU_DATA_ENCIPHERMENT     0x0010
# define X509v3_KU_KEY_AGREEMENT         0x0008
# define X509v3_KU_KEY_CERT_SIGN         0x0004
# define X509v3_KU_CRL_SIGN              0x0002
# define X509v3_KU_ENCIPHER_ONLY         0x0001
# define X509v3_KU_DECIPHER_ONLY         0x8000
# define X509v3_KU_UNDEF                 0xffff

struct X509_algor_st {
   ASN1_OBJECT *algorithm;
   ASN1_TYPE *parameter;
} /* X509_ALGOR */ ;

typedef STACK_OF(X509_ALGOR) X509_ALGORS;

typedef struct X509_val_st {
   ASN1_TIME *notBefore;
   ASN1_TIME *notAfter;
} X509_VAL;

typedef struct X509_sig_st
 X509_SIG;

typedef struct X509_name_entry_st X509_NAME_ENTRY;
```

```
SKM_DEFINE_STACK_OF_INTERNAL(X509_NAME_ENTRY, X509_NAME_ENTRY,
X509_NAME_ENTRY)
#define sk_X509_NAME_ENTRY_num(sk)
OPENSSL_sk_num(ossl_check_const_X509_NAME_ENTRY_sk_type(sk))
#define sk_X509_NAME_ENTRY_value(sk, idx) ((X509_NAME_ENTRY
*)OPENSSL_sk_value(ossl_check_const_X509_NAME_ENTRY_sk_type(sk), (idx)))
#define sk_X509_NAME_ENTRY_new(cmp) ((STACK_OF(X509_NAME_ENTRY)
*)OPENSSL_sk_new(ossl_check_X509_NAME_ENTRY_compfunc_type(cmp)))
#define sk_X509_NAME_ENTRY_new_null() ((STACK_OF(X509_NAME_ENTRY)
*)OPENSSL_sk_new_null())
#define sk_X509_NAME_ENTRY_new_reserve(cmp, n) ((STACK_OF(X509_NAME_ENTRY)
*)OPENSSL_sk_new_reserve(ossl_check_X509_NAME_ENTRY_compfunc_type(cmp), (n)))
#define sk_X509_NAME_ENTRY_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_X509_NAME_ENTRY_sk_type(sk), (n))
#define sk_X509_NAME_ENTRY_free(sk) OPENSSL_sk_free(ossl_check_X509_NAME_ENTRY_sk_type(sk))
#define sk_X509_NAME_ENTRY_zero(sk) OPENSSL_sk_zero(ossl_check_X509_NAME_ENTRY_sk_type(sk))
#define
 sk_X509_NAME_ENTRY_delete(sk, i) ((X509_NAME_ENTRY
*)OPENSSL_sk_delete(ossl_check_X509_NAME_ENTRY_sk_type(sk), (i)))
#define sk_X509_NAME_ENTRY_delete_ptr(sk, ptr) ((X509_NAME_ENTRY
*)OPENSSL_sk_delete_ptr(ossl_check_X509_NAME_ENTRY_sk_type(sk),
ossl_check_X509_NAME_ENTRY_type(ptr)))
#define sk_X509_NAME_ENTRY_push(sk, ptr)
OPENSSL_sk_push(ossl_check_X509_NAME_ENTRY_sk_type(sk),
ossl_check_X509_NAME_ENTRY_type(ptr))
#define sk_X509_NAME_ENTRY_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_X509_NAME_ENTRY_sk_type(sk),
ossl_check_X509_NAME_ENTRY_type(ptr))
#define sk_X509_NAME_ENTRY_pop(sk) ((X509_NAME_ENTRY
*)OPENSSL_sk_pop(ossl_check_X509_NAME_ENTRY_sk_type(sk)))
#define sk_X509_NAME_ENTRY_shift(sk) ((X509_NAME_ENTRY
*)OPENSSL_sk_shift(ossl_check_X509_NAME_ENTRY_sk_type(sk)))
#define sk_X509_NAME_ENTRY_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_NAME_ENTRY_sk_type(sk),ossl_check_X509_NAME_ENTRY_freef
unc_type(freefunc))
#define sk_X509_NAME_ENTRY_insert(sk,
 ptr, idx) OPENSSL_sk_insert(ossl_check_X509_NAME_ENTRY_sk_type(sk),
ossl_check_X509_NAME_ENTRY_type(ptr), (idx))
#define sk_X509_NAME_ENTRY_set(sk, idx, ptr) ((X509_NAME_ENTRY
*)OPENSSL_sk_set(ossl_check_X509_NAME_ENTRY_sk_type(sk), (idx),
ossl_check_X509_NAME_ENTRY_type(ptr)))
#define sk_X509_NAME_ENTRY_find(sk, ptr)
OPENSSL_sk_find(ossl_check_X509_NAME_ENTRY_sk_type(sk),
ossl_check_X509_NAME_ENTRY_type(ptr))
#define sk_X509_NAME_ENTRY_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_X509_NAME_ENTRY_sk_type(sk),
ossl_check_X509_NAME_ENTRY_type(ptr))
#define sk_X509_NAME_ENTRY_find_all(sk, ptr, pnum)
```

```
OPENSSL_sk_find_all(ossl_check_X509_NAME_ENTRY_sk_type(sk),
ossl_check_X509_NAME_ENTRY_type(ptr), pnum)
#define sk_X509_NAME_ENTRY_sort(sk) OPENSSL_sk_sort(ossl_check_X509_NAME_ENTRY_sk_type(sk))
#define sk_X509_NAME_ENTRY_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_X509_NAME_ENTRY_sk_type(sk))
#define sk_X509_NAME_ENTRY_dup(sk) ((STACK_OF(X509_NAME_ENTRY)
 *)OPENSSL_sk_dup(ossl_check_const_X509_NAME_ENTRY_sk_type(sk)))
#define sk_X509_NAME_ENTRY_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_NAME_ENTRY)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_NAME_ENTRY_sk_type(sk),
ossl_check_X509_NAME_ENTRY_copyfunc_type(copyfunc),
ossl_check_X509_NAME_ENTRY_freefunc_type(freefunc)))
#define sk_X509_NAME_ENTRY_set_cmp_func(sk, cmp)
((sk_X509_NAME_ENTRY_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_NAME_ENTRY_sk_type
(sk), ossl_check_X509_NAME_ENTRY_compfunc_type(cmp)))


# define X509_EX_V_NETSCAPE_HACK        0x8000
# define X509_EX_V_INIT                 0x0001
typedef struct X509_extension_st X509_EXTENSION;
SKM_DEFINE_STACK_OF_INTERNAL(X509_EXTENSION, X509_EXTENSION, X509_EXTENSION)
#define sk_X509_EXTENSION_num(sk) OPENSSL_sk_num(ossl_check_const_X509_EXTENSION_sk_type(sk))
#define sk_X509_EXTENSION_value(sk, idx) ((X509_EXTENSION
*)OPENSSL_sk_value(ossl_check_const_X509_EXTENSION_sk_type(sk), (idx)))
#define sk_X509_EXTENSION_new(cmp)
 ((STACK_OF(X509_EXTENSION)
*)OPENSSL_sk_new(ossl_check_X509_EXTENSION_compfunc_type(cmp)))
#define sk_X509_EXTENSION_new_null() ((STACK_OF(X509_EXTENSION) *)OPENSSL_sk_new_null())
#define sk_X509_EXTENSION_new_reserve(cmp, n) ((STACK_OF(X509_EXTENSION)
*)OPENSSL_sk_new_reserve(ossl_check_X509_EXTENSION_compfunc_type(cmp), (n)))
#define sk_X509_EXTENSION_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_X509_EXTENSION_sk_type(sk), (n))
#define sk_X509_EXTENSION_free(sk) OPENSSL_sk_free(ossl_check_X509_EXTENSION_sk_type(sk))
#define sk_X509_EXTENSION_zero(sk) OPENSSL_sk_zero(ossl_check_X509_EXTENSION_sk_type(sk))
#define sk_X509_EXTENSION_delete(sk, i) ((X509_EXTENSION
*)OPENSSL_sk_delete(ossl_check_X509_EXTENSION_sk_type(sk), (i)))
#define sk_X509_EXTENSION_delete_ptr(sk, ptr) ((X509_EXTENSION
*)OPENSSL_sk_delete_ptr(ossl_check_X509_EXTENSION_sk_type(sk),
ossl_check_X509_EXTENSION_type(ptr)))
#define sk_X509_EXTENSION_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_EXTENSION_sk_type(sk),
ossl_check_X509_EXTENSION_type(ptr))
#define
 sk_X509_EXTENSION_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_EXTENSION_sk_type(sk),
ossl_check_X509_EXTENSION_type(ptr))
#define sk_X509_EXTENSION_pop(sk) ((X509_EXTENSION
*)OPENSSL_sk_pop(ossl_check_X509_EXTENSION_sk_type(sk)))
#define sk_X509_EXTENSION_shift(sk) ((X509_EXTENSION
*)OPENSSL_sk_shift(ossl_check_X509_EXTENSION_sk_type(sk)))
#define sk_X509_EXTENSION_pop_free(sk, freefunc)
```

```
OPENSSL_sk_pop_free(ossl_check_X509_EXTENSION_sk_type(sk),ossl_check_X509_EXTENSION_freefunc_t
ype(freefunc))
#define sk_X509_EXTENSION_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_X509_EXTENSION_sk_type(sk), ossl_check_X509_EXTENSION_type(ptr),
(idx))
#define sk_X509_EXTENSION_set(sk, idx, ptr) ((X509_EXTENSION
*)OPENSSL_sk_set(ossl_check_X509_EXTENSION_sk_type(sk), (idx),
ossl_check_X509_EXTENSION_type(ptr)))
#define sk_X509_EXTENSION_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_EXTENSION_sk_type(sk),
ossl_check_X509_EXTENSION_type(ptr))
#define
 sk_X509_EXTENSION_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_EXTENSION_sk_type(sk),
ossl_check_X509_EXTENSION_type(ptr))
#define sk_X509_EXTENSION_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509_EXTENSION_sk_type(sk), ossl_check_X509_EXTENSION_type(ptr),
pnum)
#define sk_X509_EXTENSION_sort(sk) OPENSSL_sk_sort(ossl_check_X509_EXTENSION_sk_type(sk))
#define sk_X509_EXTENSION_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_X509_EXTENSION_sk_type(sk))
#define sk_X509_EXTENSION_dup(sk) ((STACK_OF(X509_EXTENSION)
*)OPENSSL_sk_dup(ossl_check_const_X509_EXTENSION_sk_type(sk)))
#define sk_X509_EXTENSION_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_EXTENSION)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_EXTENSION_sk_type(sk),
ossl_check_X509_EXTENSION_copyfunc_type(copyfunc),
ossl_check_X509_EXTENSION_freefunc_type(freefunc)))
#define sk_X509_EXTENSION_set_cmp_func(sk, cmp)
((sk_X509_EXTENSION_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_EXTENSION_sk_type(sk),
 ossl_check_X509_EXTENSION_compfunc_type(cmp)))

typedef STACK_OF(X509_EXTENSION) X509_EXTENSIONS;
typedef struct x509_attributes_st X509_ATTRIBUTE;
SKM_DEFINE_STACK_OF_INTERNAL(X509_ATTRIBUTE, X509_ATTRIBUTE, X509_ATTRIBUTE)
#define sk_X509_ATTRIBUTE_num(sk) OPENSSL_sk_num(ossl_check_const_X509_ATTRIBUTE_sk_type(sk))
#define sk_X509_ATTRIBUTE_value(sk, idx) ((X509_ATTRIBUTE
*)OPENSSL_sk_value(ossl_check_const_X509_ATTRIBUTE_sk_type(sk), (idx)))
#define sk_X509_ATTRIBUTE_new(cmp) ((STACK_OF(X509_ATTRIBUTE)
*)OPENSSL_sk_new(ossl_check_X509_ATTRIBUTE_compfunc_type(cmp)))
#define sk_X509_ATTRIBUTE_new_null() ((STACK_OF(X509_ATTRIBUTE) *)OPENSSL_sk_new_null())
#define sk_X509_ATTRIBUTE_new_reserve(cmp, n) ((STACK_OF(X509_ATTRIBUTE)
*)OPENSSL_sk_new_reserve(ossl_check_X509_ATTRIBUTE_compfunc_type(cmp), (n)))
#define sk_X509_ATTRIBUTE_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_X509_ATTRIBUTE_sk_type(sk), (n))
#define sk_X509_ATTRIBUTE_free(sk) OPENSSL_sk_free(ossl_check_X509_ATTRIBUTE_sk_type(sk))
#define
 sk_X509_ATTRIBUTE_zero(sk) OPENSSL_sk_zero(ossl_check_X509_ATTRIBUTE_sk_type(sk))
#define sk_X509_ATTRIBUTE_delete(sk, i) ((X509_ATTRIBUTE
*)OPENSSL_sk_delete(ossl_check_X509_ATTRIBUTE_sk_type(sk), (i)))
#define sk_X509_ATTRIBUTE_delete_ptr(sk, ptr) ((X509_ATTRIBUTE
```

```
*)OPENSSL_sk_delete_ptr(ossl_check_X509_ATTRIBUTE_sk_type(sk),
ossl_check_X509_ATTRIBUTE_type(ptr)))
#define sk_X509_ATTRIBUTE_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_ATTRIBUTE_sk_type(sk),
ossl_check_X509_ATTRIBUTE_type(ptr))
#define sk_X509_ATTRIBUTE_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_X509_ATTRIBUTE_sk_type(sk), ossl_check_X509_ATTRIBUTE_type(ptr))
#define sk_X509_ATTRIBUTE_pop(sk) ((X509_ATTRIBUTE
*)OPENSSL_sk_pop(ossl_check_X509_ATTRIBUTE_sk_type(sk)))
#define sk_X509_ATTRIBUTE_shift(sk) ((X509_ATTRIBUTE
*)OPENSSL_sk_shift(ossl_check_X509_ATTRIBUTE_sk_type(sk)))
#define sk_X509_ATTRIBUTE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_ATTRIBUTE_sk_type(sk),ossl_check_X509_ATTRIBUTE_freefunc_t
ype(freefunc))
#define
 sk_X509_ATTRIBUTE_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_ATTRIBUTE_sk_type(sk),
ossl_check_X509_ATTRIBUTE_type(ptr), (idx))
#define sk_X509_ATTRIBUTE_set(sk, idx, ptr) ((X509_ATTRIBUTE
*)OPENSSL_sk_set(ossl_check_X509_ATTRIBUTE_sk_type(sk), (idx),
ossl_check_X509_ATTRIBUTE_type(ptr)))
#define sk_X509_ATTRIBUTE_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_ATTRIBUTE_sk_type(sk),
ossl_check_X509_ATTRIBUTE_type(ptr))
#define sk_X509_ATTRIBUTE_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_X509_ATTRIBUTE_sk_type(sk), ossl_check_X509_ATTRIBUTE_type(ptr))
#define sk_X509_ATTRIBUTE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509_ATTRIBUTE_sk_type(sk), ossl_check_X509_ATTRIBUTE_type(ptr),
pnum)
#define sk_X509_ATTRIBUTE_sort(sk) OPENSSL_sk_sort(ossl_check_X509_ATTRIBUTE_sk_type(sk))
#define sk_X509_ATTRIBUTE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_X509_ATTRIBUTE_sk_type(sk))
#define sk_X509_ATTRIBUTE_dup(sk) ((STACK_OF(X509_ATTRIBUTE)
 *)OPENSSL_sk_dup(ossl_check_const_X509_ATTRIBUTE_sk_type(sk)))
#define sk_X509_ATTRIBUTE_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_ATTRIBUTE)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_ATTRIBUTE_sk_type(sk),
ossl_check_X509_ATTRIBUTE_copyfunc_type(copyfunc),
ossl_check_X509_ATTRIBUTE_freefunc_type(freefunc)))
#define sk_X509_ATTRIBUTE_set_cmp_func(sk, cmp)
((sk_X509_ATTRIBUTE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_ATTRIBUTE_sk_type(sk),
ossl_check_X509_ATTRIBUTE_compfunc_type(cmp)))

typedef struct X509_req_info_st X509_REQ_INFO;
typedef struct X509_req_st X509_REQ;
typedef struct x509_cert_aux_st X509_CERT_AUX;
typedef struct x509_cinf_st X509_CINF;

/* Flags for X509_print_ex() */

# define X509_FLAG_COMPAT		0
# define X509_FLAG_NO_HEADER		1L
```

```
# define X509_FLAG_NO_VERSION           (1L << 1)
# define X509_FLAG_NO_SERIAL            (1L << 2)
# define X509_FLAG_NO_SIGNAME           (1L << 3)
# define X509_FLAG_NO_ISSUER
            (1L << 4)
# define X509_FLAG_NO_VALIDITY          (1L << 5)
# define X509_FLAG_NO_SUBJECT           (1L << 6)
# define X509_FLAG_NO_PUBKEY            (1L << 7)
# define X509_FLAG_NO_EXTENSIONS        (1L << 8)
# define X509_FLAG_NO_SIGDUMP           (1L << 9)
# define X509_FLAG_NO_AUX               (1L << 10)
# define X509_FLAG_NO_ATTRIBUTES        (1L << 11)
# define X509_FLAG_NO_IDS               (1L << 12)
# define X509_FLAG_EXTENSIONS_ONLY_KID   (1L << 13)

/* Flags specific to X509_NAME_print_ex() */

/* The field separator information */

# define XN_FLAG_SEP_MASK        (0xf << 16)

# define XN_FLAG_COMPAT          0/* Traditional; use old X509_NAME_print */
# define XN_FLAG_SEP_COMMA_PLUS  (1 << 16)/* RFC2253 ,+ */
# define XN_FLAG_SEP_CPLUS_SPC   (2 << 16)/* ,+ spaced: more readable */
# define XN_FLAG_SEP_SPLUS_SPC   (3 << 16)/* ;+ spaced */
# define XN_FLAG_SEP_MULTILINE   (4 << 16)/* One line per field */

# define XN_FLAG_DN_REV          (1 << 20)/*
 Reverse DN order */

/* How the field name is shown */

# define XN_FLAG_FN_MASK         (0x3 << 21)

# define XN_FLAG_FN_SN           0/* Object short name */
# define XN_FLAG_FN_LN           (1 << 21)/* Object long name */
# define XN_FLAG_FN_OID          (2 << 21)/* Always use OIDs */
# define XN_FLAG_FN_NONE         (3 << 21)/* No field names */

# define XN_FLAG_SPC_EQ          (1 << 23)/* Put spaces round '=' */

/*
* This determines if we dump fields we don't recognise: RFC2253 requires
* this.
*/

# define XN_FLAG_DUMP_UNKNOWN_FIELDS (1 << 24)
```

```
# define XN_FLAG_FN_ALIGN        (1 << 25)/* Align field names to 20
                                 * characters */

/* Complete set of RFC2253 flags */

# define XN_FLAG_RFC2253 (ASN1_STRFLGS_RFC2253 | \
                    XN_FLAG_SEP_COMMA_PLUS | \
                    XN_FLAG_DN_REV | \
                    XN_FLAG_FN_SN | \
                    XN_FLAG_DUMP_UNKNOWN_FIELDS)

/* readable oneline form */

#
 define XN_FLAG_ONELINE (ASN1_STRFLGS_RFC2253 | \
                    ASN1_STRFLGS_ESC_QUOTE | \
                    XN_FLAG_SEP_CPLUS_SPC | \
                    XN_FLAG_SPC_EQ | \
                    XN_FLAG_FN_SN)

/* readable multiline form */

# define XN_FLAG_MULTILINE (ASN1_STRFLGS_ESC_CTRL | \
                    ASN1_STRFLGS_ESC_MSB | \
                    XN_FLAG_SEP_MULTILINE | \
                    XN_FLAG_SPC_EQ | \
                    XN_FLAG_FN_LN | \
                    XN_FLAG_FN_ALIGN)

typedef struct X509_crl_info_st X509_CRL_INFO;

typedef struct private_key_st {
   int version;
   /* The PKCS#8 data types */
   X509_ALGOR *enc_algor;
   ASN1_OCTET_STRING *enc_pkey; /* encrypted pub key */
   /* When decrypted, the following will not be NULL */
   EVP_PKEY *dec_pkey;
   /* used to encrypt and decrypt */
   int key_length;
   char *key_data;
   int key_free;              /* true if we should auto free key_data */
   /*
 expanded version of 'enc_algor' */
   EVP_CIPHER_INFO cipher;
} X509_PKEY;

typedef struct X509_info_st {
```

```
  X509 *x509;
  X509_CRL *crl;
  X509_PKEY *x_pkey;
  EVP_CIPHER_INFO enc_cipher;
  int enc_len;
  char *enc_data;
} X509_INFO;
SKM_DEFINE_STACK_OF_INTERNAL(X509_INFO, X509_INFO, X509_INFO)
#define sk_X509_INFO_num(sk) OPENSSL_sk_num(ossl_check_const_X509_INFO_sk_type(sk))
#define sk_X509_INFO_value(sk, idx) ((X509_INFO
*)OPENSSL_sk_value(ossl_check_const_X509_INFO_sk_type(sk), (idx)))
#define sk_X509_INFO_new(cmp) ((STACK_OF(X509_INFO)
*)OPENSSL_sk_new(ossl_check_X509_INFO_compfunc_type(cmp)))
#define sk_X509_INFO_new_null() ((STACK_OF(X509_INFO) *)OPENSSL_sk_new_null())
#define sk_X509_INFO_new_reserve(cmp, n) ((STACK_OF(X509_INFO)
*)OPENSSL_sk_new_reserve(ossl_check_X509_INFO_compfunc_type(cmp), (n)))
#define sk_X509_INFO_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_INFO_sk_type(sk), (n))
#define sk_X509_INFO_free(sk) OPENSSL_sk_free(ossl_check_X509_INFO_sk_type(sk))
#define
 sk_X509_INFO_zero(sk) OPENSSL_sk_zero(ossl_check_X509_INFO_sk_type(sk))
#define sk_X509_INFO_delete(sk, i) ((X509_INFO *)OPENSSL_sk_delete(ossl_check_X509_INFO_sk_type(sk),
(i)))
#define sk_X509_INFO_delete_ptr(sk, ptr) ((X509_INFO
*)OPENSSL_sk_delete_ptr(ossl_check_X509_INFO_sk_type(sk), ossl_check_X509_INFO_type(ptr)))
#define sk_X509_INFO_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_INFO_sk_type(sk),
ossl_check_X509_INFO_type(ptr))
#define sk_X509_INFO_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_INFO_sk_type(sk),
ossl_check_X509_INFO_type(ptr))
#define sk_X509_INFO_pop(sk) ((X509_INFO *)OPENSSL_sk_pop(ossl_check_X509_INFO_sk_type(sk)))
#define sk_X509_INFO_shift(sk) ((X509_INFO *)OPENSSL_sk_shift(ossl_check_X509_INFO_sk_type(sk)))
#define sk_X509_INFO_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_INFO_sk_type(sk),ossl_check_X509_INFO_freefunc_type(freefunc))
#define sk_X509_INFO_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_INFO_sk_type(sk),
 ossl_check_X509_INFO_type(ptr), (idx))
#define sk_X509_INFO_set(sk, idx, ptr) ((X509_INFO *)OPENSSL_sk_set(ossl_check_X509_INFO_sk_type(sk),
(idx), ossl_check_X509_INFO_type(ptr)))
#define sk_X509_INFO_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_INFO_sk_type(sk),
ossl_check_X509_INFO_type(ptr))
#define sk_X509_INFO_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_INFO_sk_type(sk),
ossl_check_X509_INFO_type(ptr))
#define sk_X509_INFO_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_X509_INFO_sk_type(sk),
ossl_check_X509_INFO_type(ptr), pnum)
#define sk_X509_INFO_sort(sk) OPENSSL_sk_sort(ossl_check_X509_INFO_sk_type(sk))
#define sk_X509_INFO_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_X509_INFO_sk_type(sk))
#define sk_X509_INFO_dup(sk) ((STACK_OF(X509_INFO)
*)OPENSSL_sk_dup(ossl_check_const_X509_INFO_sk_type(sk)))
#define sk_X509_INFO_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_INFO)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_INFO_sk_type(sk),
```

```
ossl_check_X509_INFO_copyfunc_type(copyfunc),
 ossl_check_X509_INFO_freefunc_type(freefunc)))
#define sk_X509_INFO_set_cmp_func(sk, cmp)
((sk_X509_INFO_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_INFO_sk_type(sk),
ossl_check_X509_INFO_compfunc_type(cmp)))


/*
* The next 2 structures and their 8 routines are used to manipulate Netscape's
* spki structures - useful if you are writing a CA web page
*/
typedef struct Netscape_spkac_st {
   X509_PUBKEY *pubkey;
   ASN1_IA5STRING *challenge;  /* challenge sent in atlas >= PR2 */
} NETSCAPE_SPKAC;

typedef struct Netscape_spki_st {
   NETSCAPE_SPKAC *spkac;      /* signed public key and challenge */
   X509_ALGOR sig_algor;
   ASN1_BIT_STRING *signature;
} NETSCAPE_SPKI;

/* Netscape certificate sequence structure */
typedef struct Netscape_certificate_sequence {
   ASN1_OBJECT *type;
   STACK_OF(X509) *certs;
} NETSCAPE_CERT_SEQUENCE;

/*- Unused (and iv length is wrong)
typedef struct CBCParameter_st
       {
       unsigned char iv[8];
        } CBC_PARAM;
*/

/* Password based encryption structure */

typedef struct PBEPARAM_st {
   ASN1_OCTET_STRING *salt;
   ASN1_INTEGER *iter;
} PBEPARAM;

/* Password based encryption V2 structures */

typedef struct PBE2PARAM_st {
   X509_ALGOR *keyfunc;
   X509_ALGOR *encryption;
} PBE2PARAM;
```

```
typedef struct PBKDF2PARAM_st {
/* Usually OCTET STRING but could be anything */
   ASN1_TYPE *salt;
   ASN1_INTEGER *iter;
   ASN1_INTEGER *keylength;
   X509_ALGOR *prf;
} PBKDF2PARAM;

#ifndef OPENSSL_NO_SCRYPT
typedef struct SCRYPT_PARAMS_st {
   ASN1_OCTET_STRING *salt;
   ASN1_INTEGER *costParameter;
   ASN1_INTEGER *blockSize;
   ASN1_INTEGER *parallelizationParameter;
   ASN1_INTEGER *keyLength;
} SCRYPT_PARAMS;
#endif

#ifdef  __cplusplus
}
#endif

# include <openssl/x509_vfy.h>
# include <openssl/pkcs7.h>

#ifdef  __cplusplus
extern "C" {
#endif

# define X509_EXT_PACK_UNKNOWN   1
# define X509_EXT_PACK_STRING    2

# define         X509_extract_key(x)     X509_get_pubkey(x)/*****/
#
 define         X509_REQ_extract_key(a) X509_REQ_get_pubkey(a)
# define         X509_name_cmp(a,b)      X509_NAME_cmp((a),(b))

void X509_CRL_set_default_method(const X509_CRL_METHOD *meth);
X509_CRL_METHOD *X509_CRL_METHOD_new(int (*crl_init) (X509_CRL *crl),
                                     int (*crl_free) (X509_CRL *crl),
                                     int (*crl_lookup) (X509_CRL *crl,
                                                        X509_REVOKED **ret,
                                                        const
                                                        ASN1_INTEGER *serial,
                                                        const
                                                        X509_NAME *issuer),
                                     int (*crl_verify) (X509_CRL *crl,
```

```
                                        EVP_PKEY *pk));
void X509_CRL_METHOD_free(X509_CRL_METHOD *m);

void X509_CRL_set_meth_data(X509_CRL
 *crl, void *dat);
void *X509_CRL_get_meth_data(X509_CRL *crl);

const char *X509_verify_cert_error_string(long n);

int X509_verify(X509 *a, EVP_PKEY *r);
int X509_self_signed(X509 *cert, int verify_signature);

int X509_REQ_verify_ex(X509_REQ *a, EVP_PKEY *r, OSSL_LIB_CTX *libctx,
                    const char *propq);
int X509_REQ_verify(X509_REQ *a, EVP_PKEY *r);
int X509_CRL_verify(X509_CRL *a, EVP_PKEY *r);
int NETSCAPE_SPKI_verify(NETSCAPE_SPKI *a, EVP_PKEY *r);

NETSCAPE_SPKI *NETSCAPE_SPKI_b64_decode(const char *str, int len);
char *NETSCAPE_SPKI_b64_encode(NETSCAPE_SPKI *x);
EVP_PKEY *NETSCAPE_SPKI_get_pubkey(NETSCAPE_SPKI *x);
int NETSCAPE_SPKI_set_pubkey(NETSCAPE_SPKI *x, EVP_PKEY *pkey);

int NETSCAPE_SPKI_print(BIO *out, NETSCAPE_SPKI *spki);

int X509_signature_dump(BIO *bp, const ASN1_STRING *sig, int indent);
int X509_signature_print(BIO *bp, const X509_ALGOR *alg,
                     const ASN1_STRING *sig);

int X509_sign(X509 *x, EVP_PKEY *pkey, const EVP_MD
 *md);
int X509_sign_ctx(X509 *x, EVP_MD_CTX *ctx);
int X509_REQ_sign(X509_REQ *x, EVP_PKEY *pkey, const EVP_MD *md);
int X509_REQ_sign_ctx(X509_REQ *x, EVP_MD_CTX *ctx);
int X509_CRL_sign(X509_CRL *x, EVP_PKEY *pkey, const EVP_MD *md);
int X509_CRL_sign_ctx(X509_CRL *x, EVP_MD_CTX *ctx);
int NETSCAPE_SPKI_sign(NETSCAPE_SPKI *x, EVP_PKEY *pkey, const EVP_MD *md);

int X509_pubkey_digest(const X509 *data, const EVP_MD *type,
                    unsigned char *md, unsigned int *len);
int X509_digest(const X509 *data, const EVP_MD *type,
             unsigned char *md, unsigned int *len);
ASN1_OCTET_STRING *X509_digest_sig(const X509 *cert,
                           EVP_MD **md_used, int *md_is_fallback);
int X509_CRL_digest(const X509_CRL *data, const EVP_MD *type,
                unsigned char *md, unsigned int *len);
int X509_REQ_digest(const X509_REQ *data, const EVP_MD *type,
                unsigned char *md, unsigned int *len);
```

```
int X509_NAME_digest(const
 X509_NAME *data, const EVP_MD *type,
                 unsigned char *md, unsigned int *len);

X509 *X509_load_http(const char *url, BIO *bio, BIO *rbio, int timeout);
X509_CRL *X509_CRL_load_http(const char *url, BIO *bio, BIO *rbio, int timeout);
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  include <openssl/http.h> /* OSSL_HTTP_REQ_CTX_nbio_d2i */
#  define X509_http_nbio(rctx, pcert) \
    OSSL_HTTP_REQ_CTX_nbio_d2i(rctx, pcert, ASN1_ITEM_rptr(X509))
#  define X509_CRL_http_nbio(rctx, pcrl) \
    OSSL_HTTP_REQ_CTX_nbio_d2i(rctx, pcrl, ASN1_ITEM_rptr(X509_CRL))
# endif

# ifndef OPENSSL_NO_STDIO
X509 *d2i_X509_fp(FILE *fp, X509 **x509);
int i2d_X509_fp(FILE *fp, const X509 *x509);
X509_CRL *d2i_X509_CRL_fp(FILE *fp, X509_CRL **crl);
int i2d_X509_CRL_fp(FILE *fp, const X509_CRL *crl);
X509_REQ *d2i_X509_REQ_fp(FILE *fp, X509_REQ **req);
int i2d_X509_REQ_fp(FILE *fp, const X509_REQ *req);
#  ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 RSA *d2i_RSAPrivateKey_fp(FILE *fp, RSA
 **rsa);
OSSL_DEPRECATEDIN_3_0 int i2d_RSAPrivateKey_fp(FILE *fp, const RSA *rsa);
OSSL_DEPRECATEDIN_3_0 RSA *d2i_RSAPublicKey_fp(FILE *fp, RSA **rsa);
OSSL_DEPRECATEDIN_3_0 int i2d_RSAPublicKey_fp(FILE *fp, const RSA *rsa);
OSSL_DEPRECATEDIN_3_0 RSA *d2i_RSA_PUBKEY_fp(FILE *fp, RSA **rsa);
OSSL_DEPRECATEDIN_3_0 int i2d_RSA_PUBKEY_fp(FILE *fp, const RSA *rsa);
#  endif
#  ifndef OPENSSL_NO_DEPRECATED_3_0
#   ifndef OPENSSL_NO_DSA
OSSL_DEPRECATEDIN_3_0 DSA *d2i_DSA_PUBKEY_fp(FILE *fp, DSA **dsa);
OSSL_DEPRECATEDIN_3_0 int i2d_DSA_PUBKEY_fp(FILE *fp, const DSA *dsa);
OSSL_DEPRECATEDIN_3_0 DSA *d2i_DSAPrivateKey_fp(FILE *fp, DSA **dsa);
OSSL_DEPRECATEDIN_3_0 int i2d_DSAPrivateKey_fp(FILE *fp, const DSA *dsa);
#   endif
#  endif
#  ifndef OPENSSL_NO_DEPRECATED_3_0
#   ifndef OPENSSL_NO_EC
OSSL_DEPRECATEDIN_3_0 EC_KEY *d2i_EC_PUBKEY_fp(FILE *fp, EC_KEY **eckey);
OSSL_DEPRECATEDIN_3_0 int i2d_EC_PUBKEY_fp(FILE *fp, const EC_KEY *eckey);
OSSL_DEPRECATEDIN_3_0 EC_KEY *d2i_ECPrivateKey_fp(FILE *fp,
 EC_KEY **eckey);
OSSL_DEPRECATEDIN_3_0 int i2d_ECPrivateKey_fp(FILE *fp, const EC_KEY *eckey);
#   endif /* OPENSSL_NO_EC */
#  endif /* OPENSSL_NO_DEPRECATED_3_0 */
X509_SIG *d2i_PKCS8_fp(FILE *fp, X509_SIG **p8);
```

```
int i2d_PKCS8_fp(FILE *fp, const X509_SIG *p8);
X509_PUBKEY *d2i_X509_PUBKEY_fp(FILE *fp, X509_PUBKEY **xpk);
int i2d_X509_PUBKEY_fp(FILE *fp, const X509_PUBKEY *xpk);
PKCS8_PRIV_KEY_INFO *d2i_PKCS8_PRIV_KEY_INFO_fp(FILE *fp,
                                PKCS8_PRIV_KEY_INFO **p8inf);
int i2d_PKCS8_PRIV_KEY_INFO_fp(FILE *fp, const PKCS8_PRIV_KEY_INFO *p8inf);
int i2d_PKCS8PrivateKeyInfo_fp(FILE *fp, const EVP_PKEY *key);
int i2d_PrivateKey_fp(FILE *fp, const EVP_PKEY *pkey);
EVP_PKEY *d2i_PrivateKey_ex_fp(FILE *fp, EVP_PKEY **a, OSSL_LIB_CTX *libctx,
                       const char *propq);
EVP_PKEY *d2i_PrivateKey_fp(FILE *fp, EVP_PKEY **a);
int i2d_PUBKEY_fp(FILE *fp, const EVP_PKEY *pkey);
EVP_PKEY *d2i_PUBKEY_fp(FILE *fp, EVP_PKEY **a);
#
 endif

X509 *d2i_X509_bio(BIO *bp, X509 **x509);
int i2d_X509_bio(BIO *bp, const X509 *x509);
X509_CRL *d2i_X509_CRL_bio(BIO *bp, X509_CRL **crl);
int i2d_X509_CRL_bio(BIO *bp, const X509_CRL *crl);
X509_REQ *d2i_X509_REQ_bio(BIO *bp, X509_REQ **req);
int i2d_X509_REQ_bio(BIO *bp, const X509_REQ *req);
#  ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 RSA *d2i_RSAPrivateKey_bio(BIO *bp, RSA **rsa);
OSSL_DEPRECATEDIN_3_0 int i2d_RSAPrivateKey_bio(BIO *bp, const RSA *rsa);
OSSL_DEPRECATEDIN_3_0 RSA *d2i_RSAPublicKey_bio(BIO *bp, RSA **rsa);
OSSL_DEPRECATEDIN_3_0 int i2d_RSAPublicKey_bio(BIO *bp, const RSA *rsa);
OSSL_DEPRECATEDIN_3_0 RSA *d2i_RSA_PUBKEY_bio(BIO *bp, RSA **rsa);
OSSL_DEPRECATEDIN_3_0 int i2d_RSA_PUBKEY_bio(BIO *bp, const RSA *rsa);
#  endif
#  ifndef OPENSSL_NO_DEPRECATED_3_0
#   ifndef OPENSSL_NO_DSA
OSSL_DEPRECATEDIN_3_0 DSA *d2i_DSA_PUBKEY_bio(BIO *bp, DSA **dsa);
OSSL_DEPRECATEDIN_3_0 int i2d_DSA_PUBKEY_bio(BIO *bp, const DSA *dsa);
OSSL_DEPRECATEDIN_3_0 DSA *d2i_DSAPrivateKey_bio(BIO
 *bp, DSA **dsa);
OSSL_DEPRECATEDIN_3_0 int i2d_DSAPrivateKey_bio(BIO *bp, const DSA *dsa);
#   endif
#  endif

#  ifndef OPENSSL_NO_DEPRECATED_3_0
#   ifndef OPENSSL_NO_EC
OSSL_DEPRECATEDIN_3_0 EC_KEY *d2i_EC_PUBKEY_bio(BIO *bp, EC_KEY **eckey);
OSSL_DEPRECATEDIN_3_0 int i2d_EC_PUBKEY_bio(BIO *bp, const EC_KEY *eckey);
OSSL_DEPRECATEDIN_3_0 EC_KEY *d2i_ECPrivateKey_bio(BIO *bp, EC_KEY **eckey);
OSSL_DEPRECATEDIN_3_0 int i2d_ECPrivateKey_bio(BIO *bp, const EC_KEY *eckey);
#   endif /* OPENSSL_NO_EC */
#  endif /* OPENSSL_NO_DEPRECATED_3_0 */
```

```
X509_SIG *d2i_PKCS8_bio(BIO *bp, X509_SIG **p8);
int i2d_PKCS8_bio(BIO *bp, const X509_SIG *p8);
X509_PUBKEY *d2i_X509_PUBKEY_bio(BIO *bp, X509_PUBKEY **xpk);
int i2d_X509_PUBKEY_bio(BIO *bp, const X509_PUBKEY *xpk);
PKCS8_PRIV_KEY_INFO *d2i_PKCS8_PRIV_KEY_INFO_bio(BIO *bp,
                                 PKCS8_PRIV_KEY_INFO **p8inf);
int i2d_PKCS8_PRIV_KEY_INFO_bio(BIO *bp, const PKCS8_PRIV_KEY_INFO *p8inf);
int
 i2d_PKCS8PrivateKeyInfo_bio(BIO *bp, const EVP_PKEY *key);
int i2d_PrivateKey_bio(BIO *bp, const EVP_PKEY *pkey);
EVP_PKEY *d2i_PrivateKey_ex_bio(BIO *bp, EVP_PKEY **a, OSSL_LIB_CTX *libctx,
                        const char *propq);
EVP_PKEY *d2i_PrivateKey_bio(BIO *bp, EVP_PKEY **a);
int i2d_PUBKEY_bio(BIO *bp, const EVP_PKEY *pkey);
EVP_PKEY *d2i_PUBKEY_bio(BIO *bp, EVP_PKEY **a);

DECLARE_ASN1_DUP_FUNCTION(X509)
DECLARE_ASN1_DUP_FUNCTION(X509_ALGOR)
DECLARE_ASN1_DUP_FUNCTION(X509_ATTRIBUTE)
DECLARE_ASN1_DUP_FUNCTION(X509_CRL)
DECLARE_ASN1_DUP_FUNCTION(X509_EXTENSION)
DECLARE_ASN1_DUP_FUNCTION(X509_PUBKEY)
DECLARE_ASN1_DUP_FUNCTION(X509_REQ)
DECLARE_ASN1_DUP_FUNCTION(X509_REVOKED)
int X509_ALGOR_set0(X509_ALGOR *alg, ASN1_OBJECT *aobj, int ptype,
                void *pval);
void X509_ALGOR_get0(const ASN1_OBJECT **paobj, int *pptype,
                 const void **ppval, const X509_ALGOR *algor);
void X509_ALGOR_set_md(X509_ALGOR *alg, const EVP_MD *md);
int
 X509_ALGOR_cmp(const X509_ALGOR *a, const X509_ALGOR *b);
int X509_ALGOR_copy(X509_ALGOR *dest, const X509_ALGOR *src);

DECLARE_ASN1_DUP_FUNCTION(X509_NAME)
DECLARE_ASN1_DUP_FUNCTION(X509_NAME_ENTRY)

int X509_cmp_time(const ASN1_TIME *s, time_t *t);
int X509_cmp_current_time(const ASN1_TIME *s);
int X509_cmp_timeframe(const X509_VERIFY_PARAM *vpm,
                  const ASN1_TIME *start, const ASN1_TIME *end);
ASN1_TIME *X509_time_adj(ASN1_TIME *s, long adj, time_t *t);
ASN1_TIME *X509_time_adj_ex(ASN1_TIME *s,
                     int offset_day, long offset_sec, time_t *t);
ASN1_TIME *X509_gmtime_adj(ASN1_TIME *s, long adj);

const char *X509_get_default_cert_area(void);
const char *X509_get_default_cert_dir(void);
```

```
const char *X509_get_default_cert_file(void);
const char *X509_get_default_cert_dir_env(void);
const char *X509_get_default_cert_file_env(void);
const char *X509_get_default_private_dir(void);

X509_REQ *X509_to_X509_REQ(X509 *x, EVP_PKEY *pkey, const EVP_MD
 *md);
X509 *X509_REQ_to_X509(X509_REQ *r, int days, EVP_PKEY *pkey);

DECLARE_ASN1_FUNCTIONS(X509_ALGOR)
DECLARE_ASN1_ENCODE_FUNCTIONS(X509_ALGORS, X509_ALGORS, X509_ALGORS)
DECLARE_ASN1_FUNCTIONS(X509_VAL)

DECLARE_ASN1_FUNCTIONS(X509_PUBKEY)

X509_PUBKEY *X509_PUBKEY_new_ex(OSSL_LIB_CTX *libctx, const char *propq);
int X509_PUBKEY_set(X509_PUBKEY **x, EVP_PKEY *pkey);
EVP_PKEY *X509_PUBKEY_get0(const X509_PUBKEY *key);
EVP_PKEY *X509_PUBKEY_get(const X509_PUBKEY *key);
int X509_get_pubkey_parameters(EVP_PKEY *pkey, STACK_OF(X509) *chain);
long X509_get_pathlen(X509 *x);
DECLARE_ASN1_ENCODE_FUNCTIONS_only(EVP_PKEY, PUBKEY)
EVP_PKEY *d2i_PUBKEY_ex(EVP_PKEY **a, const unsigned char **pp, long length,
                    OSSL_LIB_CTX *libctx, const char *propq);
# ifndef OPENSSL_NO_DEPRECATED_3_0
DECLARE_ASN1_ENCODE_FUNCTIONS_only_attr(OSSL_DEPRECATEDIN_3_0,RSA, RSA_PUBKEY)
# endif
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  ifndef OPENSSL_NO_DSA
DECLARE_ASN1_ENCODE_FUNCTIONS_only_attr(OSSL_DEPRECATEDIN_3_0,DSA,
 DSA_PUBKEY)
#  endif
# endif
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  ifndef OPENSSL_NO_EC
DECLARE_ASN1_ENCODE_FUNCTIONS_only_attr(OSSL_DEPRECATEDIN_3_0, EC_KEY, EC_PUBKEY)
#  endif
# endif

DECLARE_ASN1_FUNCTIONS(X509_SIG)
void X509_SIG_get0(const X509_SIG *sig, const X509_ALGOR **palg,
                const ASN1_OCTET_STRING **pdigest);
void X509_SIG_getm(X509_SIG *sig, X509_ALGOR **palg,
                ASN1_OCTET_STRING **pdigest);

DECLARE_ASN1_FUNCTIONS(X509_REQ_INFO)
DECLARE_ASN1_FUNCTIONS(X509_REQ)
X509_REQ *X509_REQ_new_ex(OSSL_LIB_CTX *libctx, const char *propq);
```

```
DECLARE_ASN1_FUNCTIONS(X509_ATTRIBUTE)
X509_ATTRIBUTE *X509_ATTRIBUTE_create(int nid, int atrtype, void *value);

DECLARE_ASN1_FUNCTIONS(X509_EXTENSION)
DECLARE_ASN1_ENCODE_FUNCTIONS(X509_EXTENSIONS, X509_EXTENSIONS, X509_EXTENSIONS)

DECLARE_ASN1_FUNCTIONS(X509_NAME_ENTRY)

DECLARE_ASN1_FUNCTIONS(X509_NAME)

int X509_NAME_set(X509_NAME **xn, const X509_NAME *name);

DECLARE_ASN1_FUNCTIONS(X509_CINF)
DECLARE_ASN1_FUNCTIONS(X509)
X509
 *X509_new_ex(OSSL_LIB_CTX *libctx, const char *propq);
DECLARE_ASN1_FUNCTIONS(X509_CERT_AUX)

#define X509_get_ex_new_index(l, p, newf, dupf, freef) \
   CRYPTO_get_ex_new_index(CRYPTO_EX_INDEX_X509, l, p, newf, dupf, freef)
int X509_set_ex_data(X509 *r, int idx, void *arg);
void *X509_get_ex_data(const X509 *r, int idx);
DECLARE_ASN1_ENCODE_FUNCTIONS_only(X509,X509_AUX)

int i2d_re_X509_tbs(X509 *x, unsigned char **pp);

int X509_SIG_INFO_get(const X509_SIG_INFO *siginf, int *mdnid, int *pknid,
                      int *secbits, uint32_t *flags);
void X509_SIG_INFO_set(X509_SIG_INFO *siginf, int mdnid, int pknid,
                       int secbits, uint32_t flags);

int X509_get_signature_info(X509 *x, int *mdnid, int *pknid, int *secbits,
                            uint32_t *flags);

void X509_get0_signature(const ASN1_BIT_STRING **psig,
                         const X509_ALGOR **palg, const X509 *x);
int X509_get_signature_nid(const
 X509 *x);

void X509_set0_distinguishing_id(X509 *x, ASN1_OCTET_STRING *d_id);
ASN1_OCTET_STRING *X509_get0_distinguishing_id(X509 *x);
void X509_REQ_set0_distinguishing_id(X509_REQ *x, ASN1_OCTET_STRING *d_id);
ASN1_OCTET_STRING *X509_REQ_get0_distinguishing_id(X509_REQ *x);

int X509_alias_set1(X509 *x, const unsigned char *name, int len);
int X509_keyid_set1(X509 *x, const unsigned char *id, int len);
unsigned char *X509_alias_get0(X509 *x, int *len);
```

```
unsigned char *X509_keyid_get0(X509 *x, int *len);

DECLARE_ASN1_FUNCTIONS(X509_REVOKED)
DECLARE_ASN1_FUNCTIONS(X509_CRL_INFO)
DECLARE_ASN1_FUNCTIONS(X509_CRL)
X509_CRL *X509_CRL_new_ex(OSSL_LIB_CTX *libctx, const char *propq);

int X509_CRL_add0_revoked(X509_CRL *crl, X509_REVOKED *rev);
int X509_CRL_get0_by_serial(X509_CRL *crl,
                            X509_REVOKED **ret, const ASN1_INTEGER *serial);
int X509_CRL_get0_by_cert(X509_CRL *crl, X509_REVOKED **ret, X509 *x);

X509_PKEY *X509_PKEY_new(void);
void X509_PKEY_free(X509_PKEY
 *a);

DECLARE_ASN1_FUNCTIONS(NETSCAPE_SPKI)
DECLARE_ASN1_FUNCTIONS(NETSCAPE_SPKAC)
DECLARE_ASN1_FUNCTIONS(NETSCAPE_CERT_SEQUENCE)

X509_INFO *X509_INFO_new(void);
void X509_INFO_free(X509_INFO *a);
char *X509_NAME_oneline(const X509_NAME *a, char *buf, int size);

#ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0
int ASN1_verify(i2d_of_void *i2d, X509_ALGOR *algor1,
            ASN1_BIT_STRING *signature, char *data, EVP_PKEY *pkey);
OSSL_DEPRECATEDIN_3_0
int ASN1_digest(i2d_of_void *i2d, const EVP_MD *type, char *data,
            unsigned char *md, unsigned int *len);
OSSL_DEPRECATEDIN_3_0
int ASN1_sign(i2d_of_void *i2d, X509_ALGOR *algor1, X509_ALGOR *algor2,
           ASN1_BIT_STRING *signature, char *data, EVP_PKEY *pkey,
           const EVP_MD *type);
#endif
int ASN1_item_digest(const ASN1_ITEM *it, const EVP_MD *type, void *data,
                 unsigned char *md, unsigned int *len);
int ASN1_item_verify(const ASN1_ITEM *it, const X509_ALGOR *alg,
                  const ASN1_BIT_STRING *signature, const void *data,
                 EVP_PKEY *pkey);
int ASN1_item_verify_ctx(const ASN1_ITEM *it, const X509_ALGOR *alg,
                    const ASN1_BIT_STRING *signature, const void *data,
                    EVP_MD_CTX *ctx);
int ASN1_item_sign(const ASN1_ITEM *it, X509_ALGOR *algor1, X509_ALGOR *algor2,
                ASN1_BIT_STRING *signature, const void *data,
                EVP_PKEY *pkey, const EVP_MD *md);
int ASN1_item_sign_ctx(const ASN1_ITEM *it, X509_ALGOR *algor1,
```

```
                X509_ALGOR *algor2, ASN1_BIT_STRING *signature,
                const void *data, EVP_MD_CTX *ctx);

#define X509_VERSION_1 0
#define X509_VERSION_2 1
#define X509_VERSION_3 2

long X509_get_version(const X509 *x);
int X509_set_version(X509 *x, long version);
int X509_set_serialNumber(X509 *x, ASN1_INTEGER *serial);
ASN1_INTEGER *X509_get_serialNumber(X509 *x);
const ASN1_INTEGER *X509_get0_serialNumber(const
 X509 *x);
int X509_set_issuer_name(X509 *x, const X509_NAME *name);
X509_NAME *X509_get_issuer_name(const X509 *a);
int X509_set_subject_name(X509 *x, const X509_NAME *name);
X509_NAME *X509_get_subject_name(const X509 *a);
const ASN1_TIME * X509_get0_notBefore(const X509 *x);
ASN1_TIME *X509_getm_notBefore(const X509 *x);
int X509_set1_notBefore(X509 *x, const ASN1_TIME *tm);
const ASN1_TIME *X509_get0_notAfter(const X509 *x);
ASN1_TIME *X509_getm_notAfter(const X509 *x);
int X509_set1_notAfter(X509 *x, const ASN1_TIME *tm);
int X509_set_pubkey(X509 *x, EVP_PKEY *pkey);
int X509_up_ref(X509 *x);
int X509_get_signature_type(const X509 *x);

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define X509_get_notBefore X509_getm_notBefore
#  define X509_get_notAfter X509_getm_notAfter
#  define X509_set_notBefore X509_set1_notBefore
#  define X509_set_notAfter X509_set1_notAfter
#endif


/*
* This one is only used so that a binary form can output, as in
* i2d_X509_PUBKEY(X509_get_X509_PUBKEY(x),
 &buf)
*/
X509_PUBKEY *X509_get_X509_PUBKEY(const X509 *x);
const STACK_OF(X509_EXTENSION) *X509_get0_extensions(const X509 *x);
void X509_get0_uids(const X509 *x, const ASN1_BIT_STRING **piuid,
                const ASN1_BIT_STRING **psuid);
const X509_ALGOR *X509_get0_tbs_sigalg(const X509 *x);

EVP_PKEY *X509_get0_pubkey(const X509 *x);
EVP_PKEY *X509_get_pubkey(X509 *x);
```

```
ASN1_BIT_STRING *X509_get0_pubkey_bitstr(const X509 *x);

#define X509_REQ_VERSION_1 0

long X509_REQ_get_version(const X509_REQ *req);
int X509_REQ_set_version(X509_REQ *x, long version);
X509_NAME *X509_REQ_get_subject_name(const X509_REQ *req);
int X509_REQ_set_subject_name(X509_REQ *req, const X509_NAME *name);
void X509_REQ_get0_signature(const X509_REQ *req, const ASN1_BIT_STRING **psig,
                             const X509_ALGOR **palg);
void X509_REQ_set0_signature(X509_REQ *req, ASN1_BIT_STRING *psig);
int X509_REQ_set1_signature_algo(X509_REQ *req, X509_ALGOR *palg);
int X509_REQ_get_signature_nid(const
 X509_REQ *req);
int i2d_re_X509_REQ_tbs(X509_REQ *req, unsigned char **pp);
int X509_REQ_set_pubkey(X509_REQ *x, EVP_PKEY *pkey);
EVP_PKEY *X509_REQ_get_pubkey(X509_REQ *req);
EVP_PKEY *X509_REQ_get0_pubkey(X509_REQ *req);
X509_PUBKEY *X509_REQ_get_X509_PUBKEY(X509_REQ *req);
int X509_REQ_extension_nid(int nid);
int *X509_REQ_get_extension_nids(void);
void X509_REQ_set_extension_nids(int *nids);
STACK_OF(X509_EXTENSION) *X509_REQ_get_extensions(X509_REQ *req);
int X509_REQ_add_extensions_nid(X509_REQ *req,
                                const STACK_OF(X509_EXTENSION) *exts, int nid);
int X509_REQ_add_extensions(X509_REQ *req, const STACK_OF(X509_EXTENSION) *ext);
int X509_REQ_get_attr_count(const X509_REQ *req);
int X509_REQ_get_attr_by_NID(const X509_REQ *req, int nid, int lastpos);
int X509_REQ_get_attr_by_OBJ(const X509_REQ *req, const ASN1_OBJECT *obj,
                             int lastpos);
X509_ATTRIBUTE *X509_REQ_get_attr(const X509_REQ *req, int loc);
X509_ATTRIBUTE
 *X509_REQ_delete_attr(X509_REQ *req, int loc);
int X509_REQ_add1_attr(X509_REQ *req, X509_ATTRIBUTE *attr);
int X509_REQ_add1_attr_by_OBJ(X509_REQ *req,
                              const ASN1_OBJECT *obj, int type,
                              const unsigned char *bytes, int len);
int X509_REQ_add1_attr_by_NID(X509_REQ *req,
                              int nid, int type,
                              const unsigned char *bytes, int len);
int X509_REQ_add1_attr_by_txt(X509_REQ *req,
                              const char *attrname, int type,
                              const unsigned char *bytes, int len);

#define X509_CRL_VERSION_1 0
#define X509_CRL_VERSION_2 1

int X509_CRL_set_version(X509_CRL *x, long version);
```

```
int X509_CRL_set_issuer_name(X509_CRL *x, const X509_NAME *name);
int X509_CRL_set1_lastUpdate(X509_CRL *x, const ASN1_TIME *tm);
int X509_CRL_set1_nextUpdate(X509_CRL *x, const ASN1_TIME *tm);
int X509_CRL_sort(X509_CRL *crl);
int X509_CRL_up_ref(X509_CRL *crl);

#
 ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define X509_CRL_set_lastUpdate X509_CRL_set1_lastUpdate
#  define X509_CRL_set_nextUpdate X509_CRL_set1_nextUpdate
#endif

long X509_CRL_get_version(const X509_CRL *crl);
const ASN1_TIME *X509_CRL_get0_lastUpdate(const X509_CRL *crl);
const ASN1_TIME *X509_CRL_get0_nextUpdate(const X509_CRL *crl);
#ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 ASN1_TIME *X509_CRL_get_lastUpdate(X509_CRL *crl);
OSSL_DEPRECATEDIN_1_1_0 ASN1_TIME *X509_CRL_get_nextUpdate(X509_CRL *crl);
#endif
X509_NAME *X509_CRL_get_issuer(const X509_CRL *crl);
const STACK_OF(X509_EXTENSION) *X509_CRL_get0_extensions(const X509_CRL *crl);
STACK_OF(X509_REVOKED) *X509_CRL_get_REVOKED(X509_CRL *crl);
void X509_CRL_get0_signature(const X509_CRL *crl, const ASN1_BIT_STRING **psig,
                             const X509_ALGOR **palg);
int X509_CRL_get_signature_nid(const X509_CRL *crl);
int i2d_re_X509_CRL_tbs(X509_CRL *req, unsigned char **pp);

const ASN1_INTEGER *X509_REVOKED_get0_serialNumber(const
 X509_REVOKED *x);
int X509_REVOKED_set_serialNumber(X509_REVOKED *x, ASN1_INTEGER *serial);
const ASN1_TIME *X509_REVOKED_get0_revocationDate(const X509_REVOKED *x);
int X509_REVOKED_set_revocationDate(X509_REVOKED *r, ASN1_TIME *tm);
const STACK_OF(X509_EXTENSION) *
X509_REVOKED_get0_extensions(const X509_REVOKED *r);

X509_CRL *X509_CRL_diff(X509_CRL *base, X509_CRL *newer,
                        EVP_PKEY *skey, const EVP_MD *md, unsigned int flags);

int X509_REQ_check_private_key(X509_REQ *x509, EVP_PKEY *pkey);

int X509_check_private_key(const X509 *x509, const EVP_PKEY *pkey);
int X509_chain_check_suiteb(int *perror_depth,
                            X509 *x, STACK_OF(X509) *chain,
                            unsigned long flags);
int X509_CRL_check_suiteb(X509_CRL *crl, EVP_PKEY *pk, unsigned long flags);
STACK_OF(X509) *X509_chain_up_ref(STACK_OF(X509) *chain);

int X509_issuer_and_serial_cmp(const X509 *a, const X509 *b);
```

```
unsigned long X509_issuer_and_serial_hash(X509
 *a);

int X509_issuer_name_cmp(const X509 *a, const X509 *b);
unsigned long X509_issuer_name_hash(X509 *a);

int X509_subject_name_cmp(const X509 *a, const X509 *b);
unsigned long X509_subject_name_hash(X509 *x);

# ifndef OPENSSL_NO_MD5
unsigned long X509_issuer_name_hash_old(X509 *a);
unsigned long X509_subject_name_hash_old(X509 *x);
# endif

# define X509_ADD_FLAG_DEFAULT  0
# define X509_ADD_FLAG_UP_REF   0x1
# define X509_ADD_FLAG_PREPEND  0x2
# define X509_ADD_FLAG_NO_DUP   0x4
# define X509_ADD_FLAG_NO_SS    0x8
int X509_add_cert(STACK_OF(X509) *sk, X509 *cert, int flags);
int X509_add_certs(STACK_OF(X509) *sk, STACK_OF(X509) *certs, int flags);

int X509_cmp(const X509 *a, const X509 *b);
int X509_NAME_cmp(const X509_NAME *a, const X509_NAME *b);
#ifndef OPENSSL_NO_DEPRECATED_3_0
# define X509_NAME_hash(x) X509_NAME_hash_ex(x, NULL, NULL, NULL)
OSSL_DEPRECATEDIN_3_0 int X509_certificate_type(const X509 *x,

       const EVP_PKEY *pubkey);
#endif
unsigned long X509_NAME_hash_ex(const X509_NAME *x, OSSL_LIB_CTX *libctx,
                         const char *propq, int *ok);
unsigned long X509_NAME_hash_old(const X509_NAME *x);

int X509_CRL_cmp(const X509_CRL *a, const X509_CRL *b);
int X509_CRL_match(const X509_CRL *a, const X509_CRL *b);
int X509_aux_print(BIO *out, X509 *x, int indent);
# ifndef OPENSSL_NO_STDIO
int X509_print_ex_fp(FILE *bp, X509 *x, unsigned long nmflag,
                 unsigned long cflag);
int X509_print_fp(FILE *bp, X509 *x);
int X509_CRL_print_fp(FILE *bp, X509_CRL *x);
int X509_REQ_print_fp(FILE *bp, X509_REQ *req);
int X509_NAME_print_ex_fp(FILE *fp, const X509_NAME *nm, int indent,
                     unsigned long flags);
# endif

int X509_NAME_print(BIO *bp, const X509_NAME *name, int obase);
```

```
int X509_NAME_print_ex(BIO *out, const X509_NAME *nm, int indent,
                    unsigned long flags);
int X509_print_ex(BIO *bp, X509 *x, unsigned
 long nmflag,
                unsigned long cflag);
int X509_print(BIO *bp, X509 *x);
int X509_ocspid_print(BIO *bp, X509 *x);
int X509_CRL_print_ex(BIO *out, X509_CRL *x, unsigned long nmflag);
int X509_CRL_print(BIO *bp, X509_CRL *x);
int X509_REQ_print_ex(BIO *bp, X509_REQ *x, unsigned long nmflag,
                   unsigned long cflag);
int X509_REQ_print(BIO *bp, X509_REQ *req);

int X509_NAME_entry_count(const X509_NAME *name);
int X509_NAME_get_text_by_NID(const X509_NAME *name, int nid,
                        char *buf, int len);
int X509_NAME_get_text_by_OBJ(const X509_NAME *name, const ASN1_OBJECT *obj,
                        char *buf, int len);

/*
* NOTE: you should be passing -1, not 0 as lastpos. The functions that use
* lastpos, search after that position on.
*/
int X509_NAME_get_index_by_NID(const X509_NAME *name, int nid, int lastpos);
int X509_NAME_get_index_by_OBJ(const X509_NAME *name, const ASN1_OBJECT *obj,

 int lastpos);
X509_NAME_ENTRY *X509_NAME_get_entry(const X509_NAME *name, int loc);
X509_NAME_ENTRY *X509_NAME_delete_entry(X509_NAME *name, int loc);
int X509_NAME_add_entry(X509_NAME *name, const X509_NAME_ENTRY *ne,
                    int loc, int set);
int X509_NAME_add_entry_by_OBJ(X509_NAME *name, const ASN1_OBJECT *obj, int type,
                        const unsigned char *bytes, int len, int loc,
                        int set);
int X509_NAME_add_entry_by_NID(X509_NAME *name, int nid, int type,
                        const unsigned char *bytes, int len, int loc,
                        int set);
X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_txt(X509_NAME_ENTRY **ne,
                                const char *field, int type,
                                const unsigned char *bytes,
                                int len);
X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_NID(X509_NAME_ENTRY **ne, int nid,
                                 int type,
                                const unsigned char *bytes,
                                int len);
int X509_NAME_add_entry_by_txt(X509_NAME *name, const char *field, int type,
                        const unsigned char *bytes, int len, int loc,
                        int set);
```

```
X509_NAME_ENTRY *X509_NAME_ENTRY_create_by_OBJ(X509_NAME_ENTRY **ne,
                                const ASN1_OBJECT *obj, int type,
                                const unsigned char *bytes,
                                int len);
int X509_NAME_ENTRY_set_object(X509_NAME_ENTRY *ne, const ASN1_OBJECT *obj);
int X509_NAME_ENTRY_set_data(X509_NAME_ENTRY *ne, int type,
                     const unsigned char *bytes, int len);
ASN1_OBJECT *X509_NAME_ENTRY_get_object(const X509_NAME_ENTRY *ne);
ASN1_STRING * X509_NAME_ENTRY_get_data(const X509_NAME_ENTRY
 *ne);
int X509_NAME_ENTRY_set(const X509_NAME_ENTRY *ne);

int X509_NAME_get0_der(const X509_NAME *nm, const unsigned char **pder,
                 size_t *pderlen);

int X509v3_get_ext_count(const STACK_OF(X509_EXTENSION) *x);
int X509v3_get_ext_by_NID(const STACK_OF(X509_EXTENSION) *x,
                   int nid, int lastpos);
int X509v3_get_ext_by_OBJ(const STACK_OF(X509_EXTENSION) *x,
                   const ASN1_OBJECT *obj, int lastpos);
int X509v3_get_ext_by_critical(const STACK_OF(X509_EXTENSION) *x,
                     int crit, int lastpos);
X509_EXTENSION *X509v3_get_ext(const STACK_OF(X509_EXTENSION) *x, int loc);
X509_EXTENSION *X509v3_delete_ext(STACK_OF(X509_EXTENSION) *x, int loc);
STACK_OF(X509_EXTENSION) *X509v3_add_ext(STACK_OF(X509_EXTENSION) **x,
                              X509_EXTENSION *ex, int loc);

int X509_get_ext_count(const X509 *x);
int X509_get_ext_by_NID(const X509 *x, int nid, int lastpos);
int X509_get_ext_by_OBJ(const
 X509 *x, const ASN1_OBJECT *obj, int lastpos);
int X509_get_ext_by_critical(const X509 *x, int crit, int lastpos);
X509_EXTENSION *X509_get_ext(const X509 *x, int loc);
X509_EXTENSION *X509_delete_ext(X509 *x, int loc);
int X509_add_ext(X509 *x, X509_EXTENSION *ex, int loc);
void *X509_get_ext_d2i(const X509 *x, int nid, int *crit, int *idx);
int X509_add1_ext_i2d(X509 *x, int nid, void *value, int crit,
                 unsigned long flags);

int X509_CRL_get_ext_count(const X509_CRL *x);
int X509_CRL_get_ext_by_NID(const X509_CRL *x, int nid, int lastpos);
int X509_CRL_get_ext_by_OBJ(const X509_CRL *x, const ASN1_OBJECT *obj,
                   int lastpos);
int X509_CRL_get_ext_by_critical(const X509_CRL *x, int crit, int lastpos);
X509_EXTENSION *X509_CRL_get_ext(const X509_CRL *x, int loc);
X509_EXTENSION *X509_CRL_delete_ext(X509_CRL *x, int loc);
int X509_CRL_add_ext(X509_CRL *x, X509_EXTENSION *ex, int loc);
void *X509_CRL_get_ext_d2i(const X509_CRL
```

```
 *x, int nid, int *crit, int *idx);
int X509_CRL_add1_ext_i2d(X509_CRL *x, int nid, void *value, int crit,
                    unsigned long flags);

int X509_REVOKED_get_ext_count(const X509_REVOKED *x);
int X509_REVOKED_get_ext_by_NID(const X509_REVOKED *x, int nid, int lastpos);
int X509_REVOKED_get_ext_by_OBJ(const X509_REVOKED *x, const ASN1_OBJECT *obj,
                      int lastpos);
int X509_REVOKED_get_ext_by_critical(const X509_REVOKED *x, int crit,
                         int lastpos);
X509_EXTENSION *X509_REVOKED_get_ext(const X509_REVOKED *x, int loc);
X509_EXTENSION *X509_REVOKED_delete_ext(X509_REVOKED *x, int loc);
int X509_REVOKED_add_ext(X509_REVOKED *x, X509_EXTENSION *ex, int loc);
void *X509_REVOKED_get_ext_d2i(const X509_REVOKED *x, int nid, int *crit,
                      int *idx);
int X509_REVOKED_add1_ext_i2d(X509_REVOKED *x, int nid, void *value, int crit,
                     unsigned long flags);

X509_EXTENSION
 *X509_EXTENSION_create_by_NID(X509_EXTENSION **ex,
                               int nid, int crit,
                               ASN1_OCTET_STRING *data);
X509_EXTENSION *X509_EXTENSION_create_by_OBJ(X509_EXTENSION **ex,
                               const ASN1_OBJECT *obj, int crit,
                               ASN1_OCTET_STRING *data);
int X509_EXTENSION_set_object(X509_EXTENSION *ex, const ASN1_OBJECT *obj);
int X509_EXTENSION_set_critical(X509_EXTENSION *ex, int crit);
int X509_EXTENSION_set_data(X509_EXTENSION *ex, ASN1_OCTET_STRING *data);
ASN1_OBJECT *X509_EXTENSION_get_object(X509_EXTENSION *ex);
ASN1_OCTET_STRING *X509_EXTENSION_get_data(X509_EXTENSION *ne);
int X509_EXTENSION_get_critical(const X509_EXTENSION *ex);

int X509at_get_attr_count(const STACK_OF(X509_ATTRIBUTE) *x);
int X509at_get_attr_by_NID(const STACK_OF(X509_ATTRIBUTE) *x, int nid,
                    int lastpos);
int X509at_get_attr_by_OBJ(const
 STACK_OF(X509_ATTRIBUTE) *sk,
                    const ASN1_OBJECT *obj, int lastpos);
X509_ATTRIBUTE *X509at_get_attr(const STACK_OF(X509_ATTRIBUTE) *x, int loc);
X509_ATTRIBUTE *X509at_delete_attr(STACK_OF(X509_ATTRIBUTE) *x, int loc);
STACK_OF(X509_ATTRIBUTE) *X509at_add1_attr(STACK_OF(X509_ATTRIBUTE) **x,
                             X509_ATTRIBUTE *attr);
STACK_OF(X509_ATTRIBUTE) *X509at_add1_attr_by_OBJ(STACK_OF(X509_ATTRIBUTE)
                                 **x, const ASN1_OBJECT *obj,
                                 int type,
                                 const unsigned char *bytes,
                                 int len);
STACK_OF(X509_ATTRIBUTE) *X509at_add1_attr_by_NID(STACK_OF(X509_ATTRIBUTE)
```

```
                                **x, int nid, int type,
                                const unsigned char *bytes,

                int len);
STACK_OF(X509_ATTRIBUTE) *X509at_add1_attr_by_txt(STACK_OF(X509_ATTRIBUTE)
                                **x, const char *attrname,
                                int type,
                                const unsigned char *bytes,
                                int len);
void *X509at_get0_data_by_OBJ(const STACK_OF(X509_ATTRIBUTE) *x,
                    const ASN1_OBJECT *obj, int lastpos, int type);
X509_ATTRIBUTE *X509_ATTRIBUTE_create_by_NID(X509_ATTRIBUTE **attr, int nid,
                            int atrtype, const void *data,
                            int len);
X509_ATTRIBUTE *X509_ATTRIBUTE_create_by_OBJ(X509_ATTRIBUTE **attr,
                            const ASN1_OBJECT *obj,
                            int atrtype, const void *data,
                            int len);
X509_ATTRIBUTE
 *X509_ATTRIBUTE_create_by_txt(X509_ATTRIBUTE **attr,
                            const char *atrname, int type,
                            const unsigned char *bytes,
                            int len);
int X509_ATTRIBUTE_set1_object(X509_ATTRIBUTE *attr, const ASN1_OBJECT *obj);
int X509_ATTRIBUTE_set1_data(X509_ATTRIBUTE *attr, int attrtype,
                    const void *data, int len);
void *X509_ATTRIBUTE_get0_data(X509_ATTRIBUTE *attr, int idx, int atrtype,
                     void *data);
int X509_ATTRIBUTE_count(const X509_ATTRIBUTE *attr);
ASN1_OBJECT *X509_ATTRIBUTE_get0_object(X509_ATTRIBUTE *attr);
ASN1_TYPE *X509_ATTRIBUTE_get0_type(X509_ATTRIBUTE *attr, int idx);

int EVP_PKEY_get_attr_count(const EVP_PKEY *key);
int EVP_PKEY_get_attr_by_NID(const EVP_PKEY *key, int nid, int lastpos);
int EVP_PKEY_get_attr_by_OBJ(const EVP_PKEY *key, const ASN1_OBJECT *obj,

      int lastpos);
X509_ATTRIBUTE *EVP_PKEY_get_attr(const EVP_PKEY *key, int loc);
X509_ATTRIBUTE *EVP_PKEY_delete_attr(EVP_PKEY *key, int loc);
int EVP_PKEY_add1_attr(EVP_PKEY *key, X509_ATTRIBUTE *attr);
int EVP_PKEY_add1_attr_by_OBJ(EVP_PKEY *key,
                    const ASN1_OBJECT *obj, int type,
                    const unsigned char *bytes, int len);
int EVP_PKEY_add1_attr_by_NID(EVP_PKEY *key,
                    int nid, int type,
                    const unsigned char *bytes, int len);
int EVP_PKEY_add1_attr_by_txt(EVP_PKEY *key,
                    const char *attrname, int type,
```

```
                        const unsigned char *bytes, int len);

/* lookup a cert from a X509 STACK */
X509 *X509_find_by_issuer_and_serial(STACK_OF(X509) *sk, const X509_NAME *name,
                                     const ASN1_INTEGER *serial);
X509 *X509_find_by_subject(STACK_OF(X509) *sk, const X509_NAME *name);

DECLARE_ASN1_FUNCTIONS(PBEPARAM)
DECLARE_ASN1_FUNCTIONS(PBE2PARAM)
DECLARE_ASN1_FUNCTIONS(PBKDF2PARAM)
#ifndef
 OPENSSL_NO_SCRYPT
DECLARE_ASN1_FUNCTIONS(SCRYPT_PARAMS)
#endif

int PKCS5_pbe_set0_algor(X509_ALGOR *algor, int alg, int iter,
                         const unsigned char *salt, int saltlen);
int PKCS5_pbe_set0_algor_ex(X509_ALGOR *algor, int alg, int iter,
                            const unsigned char *salt, int saltlen,
                            OSSL_LIB_CTX *libctx);

X509_ALGOR *PKCS5_pbe_set(int alg, int iter,
                          const unsigned char *salt, int saltlen);
X509_ALGOR *PKCS5_pbe_set_ex(int alg, int iter,
                             const unsigned char *salt, int saltlen,
                             OSSL_LIB_CTX *libctx);

X509_ALGOR *PKCS5_pbe2_set(const EVP_CIPHER *cipher, int iter,
                           unsigned char *salt, int saltlen);
X509_ALGOR *PKCS5_pbe2_set_iv(const EVP_CIPHER *cipher, int iter,
                              unsigned char *salt, int saltlen,
                              unsigned char *aiv, int prf_nid);
X509_ALGOR *PKCS5_pbe2_set_iv_ex(const EVP_CIPHER *cipher, int iter,
                                 unsigned char *salt, int saltlen,
                                 unsigned char *aiv, int prf_nid,
                                 OSSL_LIB_CTX *libctx);

#ifndef OPENSSL_NO_SCRYPT
X509_ALGOR *PKCS5_pbe2_set_scrypt(const EVP_CIPHER *cipher,
                                  const unsigned char *salt, int saltlen,
                                  unsigned char *aiv, uint64_t N, uint64_t r,
                                  uint64_t p);
#endif

X509_ALGOR *PKCS5_pbkdf2_set(int iter, unsigned char *salt, int saltlen,
                             int prf_nid, int keylen);
X509_ALGOR *PKCS5_pbkdf2_set_ex(int iter, unsigned char *salt, int saltlen,
                                int prf_nid, int keylen,
```

```
                        OSSL_LIB_CTX *libctx);

/* PKCS#8 utilities */

DECLARE_ASN1_FUNCTIONS(PKCS8_PRIV_KEY_INFO)

EVP_PKEY
 *EVP_PKCS82PKEY(const PKCS8_PRIV_KEY_INFO *p8);
EVP_PKEY *EVP_PKCS82PKEY_ex(const PKCS8_PRIV_KEY_INFO *p8, OSSL_LIB_CTX *libctx,
                     const char *propq);
PKCS8_PRIV_KEY_INFO *EVP_PKEY2PKCS8(const EVP_PKEY *pkey);

int PKCS8_pkey_set0(PKCS8_PRIV_KEY_INFO *priv, ASN1_OBJECT *aobj,
                int version, int ptype, void *pval,
                unsigned char *penc, int penclen);
int PKCS8_pkey_get0(const ASN1_OBJECT **ppkalg,
                const unsigned char **pk, int *ppklen,
                const X509_ALGOR **pa, const PKCS8_PRIV_KEY_INFO *p8);

const STACK_OF(X509_ATTRIBUTE) *
PKCS8_pkey_get0_attrs(const PKCS8_PRIV_KEY_INFO *p8);
int PKCS8_pkey_add1_attr(PKCS8_PRIV_KEY_INFO *p8, X509_ATTRIBUTE *attr);
int PKCS8_pkey_add1_attr_by_NID(PKCS8_PRIV_KEY_INFO *p8, int nid, int type,
                        const unsigned char *bytes, int len);
int PKCS8_pkey_add1_attr_by_OBJ(PKCS8_PRIV_KEY_INFO *p8, const ASN1_OBJECT *obj,
                         int type, const unsigned char *bytes, int len);


int X509_PUBKEY_set0_param(X509_PUBKEY *pub, ASN1_OBJECT *aobj,
                     int ptype, void *pval,
                     unsigned char *penc, int penclen);
int X509_PUBKEY_get0_param(ASN1_OBJECT **ppkalg,
                     const unsigned char **pk, int *ppklen,
                     X509_ALGOR **pa, const X509_PUBKEY *pub);
int X509_PUBKEY_eq(const X509_PUBKEY *a, const X509_PUBKEY *b);

# ifdef  __cplusplus
}
# endif
#endif
```

BSD-2-Clause

Recognizing Contributors

The project looks to recognize and thank contributors for their contributions
as one of the ways we can help them continue to contribute to the project.

This document captures some of the processes we have in place to do that.

Some of the benefits we hope to achieve through these programs include:

* Ensuring people know that the project appreciates their work
* Encouraging people to repeat/grow their contributions
* Helping people demonstrate to their managers the value of the contributions they are making, which in terms helps their manager support their employer investing in the project (unfortunately this is something that matters)
* Highlighting the new features in Node.js and showing that they are being added by individuals like those mentioned. This should encourage other people to get involved and make similar contributions.
* Highlighting those leading efforts/initiatives and they are being done by individuals or teams like those mentioned. This should encourage other people to get involved and make similar contributions

Sponsorship link on nodejs/node README.md

Collaborators may add a single link beside their name on the nodejs/node [`README.md`](../../README.md) file in the section titled `Collaborators` named `Support me`. This link may be:

1. a direct link to one of the sponsorship platforms listed below,
2. a page that has text explaining how to support the collaborator including zero or more links to the sponsorship platforms listed below. The page should not have any outgoing links other than to the sponsorship platforms. We expect and trust collaborators to ensure that the text is professional and respectful.

The sponsorship platforms to which links can be made currently includes (in alphabetical order):

* [GitHub Sponsors](https://github.com/sponsors)
* [Polar](https://polar.sh/)
* thanks.dev

Amplification of posts announcing talks by collaborators

When a collaborator is speaking at a public event they may request amplification by the Node.js social media accounts. They can request that a post highlighting that they are speaking at the event be amplified by the Node.js accounts by making a request in the #nodejs-social channel in the OpenJS Foundation slack. We trust that collaborators will only request amplification when they believe the event is relevant to the Node.js community and the content of the post is in line with the norms of the project.

Bi-monthly contributor spotlight

The contributor spotlight program showcases individual(s) or teams who have
made signification contributions to the project. Anybody who is not
a member of the Technical Steering Committee (TSC) and has made a
notable contribution to the project can be nominated. They DO NOT need
to be a collaborator, team member etc.

The work of the team or individual(s) will be showcased on the
Node.js social channels and, if warranted, through a blog post created by the
OpenJS
marketing staff along with the team or individual(s) which will
be published on openjsf.org.

Nominations can be made through this web form:
[Contributor Spotlight nomination](https://forms.gle/dXBXZn8yu83HLJ57A)

Nominations will be reviewed/approved by the Technical Steering Committee (TSC)
on a regular basis as scheduled by the TSC chair. The TSC will also
recommend the order in which approved nominations are processed
by the OpenJS marketing staff.

Before any work proceeds on an approved nomination the individual(s)
or team will be contacted to confirm they want to participate. Social
content and or spotlight blog post will only be published after the
team or individual(s) have confirmed they are happy with the content.
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```
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     'openssl/crypto/aes/aes_ecb.c',
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     'openssl/crypto/bn/bn_conv.c',
     'openssl/crypto/bn/bn_ctx.c',
     'openssl/crypto/bn/bn_dh.c',
     'openssl/crypto/bn/bn_div.c',
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     'openssl/crypto/bn/bn_gcd.c',
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     'openssl/crypto/bn/bn_shift.c',
      'openssl/crypto/bn/bn_sqr.c',
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```

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'openssl/crypto/asn1_dsa.c',
'openssl/crypto/bsearch.c',
'openssl/crypto/context.c',
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'openssl/providers/common/provider_seeding.c',
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'openssl/providers/implementations/asymciphers/rsa_enc.c',
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'openssl/providers/implementations/ciphers/cipher_cts.c',
'openssl/providers/implementations/ciphers/cipher_tdes.c',
'openssl/providers/implementations/ciphers/cipher_tdes_common.c',
'openssl/providers/implementations/ciphers/cipher_tdes_hw.c',
'openssl/providers/implementations/digests/sha2_prov.c',
'openssl/providers/implementations/digests/sha3_prov.c',
'openssl/providers/implementations/exchange/dh_exch.c',
'openssl/providers/implementations/exchange/ecdh_exch.c',
'openssl/providers/implementations/exchange/ecx_exch.c',
'openssl/providers/implementations/exchange/kdf_exch.c',
'openssl/providers/implementations/kdfs/hkdf.c',
'openssl/providers/implementations/kdfs/kbkdf.c',
'openssl/providers/implementations/kdfs/pbkdf2.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
'openssl/providers/implementations/kdfs/tls1_prf.c',
'openssl/providers/implementations/kdfs/x942kdf.c',
'openssl/providers/implementations/kem/rsa_kem.c',
'openssl/providers/implementations/keymgmt/dh_kmgmt.c',
'openssl/providers/implementations/keymgmt/dsa_kmgmt.c',

```
  'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
   'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',
  'openssl/providers/implementations/keymgmt/kdf_legacy_kmgmt.c',
  'openssl/providers/implementations/keymgmt/mac_legacy_kmgmt.c',
  'openssl/providers/implementations/keymgmt/rsa_kmgmt.c',
  'openssl/providers/implementations/macs/cmac_prov.c',
  'openssl/providers/implementations/macs/gmac_prov.c',
  'openssl/providers/implementations/macs/hmac_prov.c',
  'openssl/providers/implementations/macs/kmac_prov.c',
  'openssl/providers/implementations/rands/crngt.c',
  'openssl/providers/implementations/rands/drbg.c',
  'openssl/providers/implementations/rands/drbg_ctr.c',
  'openssl/providers/implementations/rands/drbg_hash.c',
  'openssl/providers/implementations/rands/drbg_hmac.c',
  'openssl/providers/implementations/rands/test_rng.c',
  'openssl/providers/implementations/signature/dsa_sig.c',
  'openssl/providers/implementations/signature/ecdsa_sig.c',
  'openssl/providers/implementations/signature/eddsa_sig.c',
   'openssl/providers/implementations/signature/mac_legacy_sig.c',
  'openssl/providers/implementations/signature/rsa_sig.c',
  'openssl/ssl/s3_cbc.c',
  'openssl/providers/common/der/der_dsa_key.c',
  'openssl/providers/common/der/der_dsa_sig.c',
  'openssl/providers/common/der/der_ec_key.c',
  'openssl/providers/common/der/der_ec_sig.c',
  'openssl/providers/common/der/der_ecx_key.c',
  'openssl/providers/common/der/der_rsa_key.c',
  'openssl/providers/common/provider_ctx.c',
  'openssl/providers/common/provider_err.c',
  'openssl/providers/implementations/ciphers/ciphercommon.c',
  'openssl/providers/implementations/ciphers/ciphercommon_block.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
   'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
  'openssl/providers/implementations/digests/digestcommon.c',
  'openssl/ssl/record/tls_pad.c',
  'openssl/providers/fips/fips_entry.c',

],
'openssl_sources_BSD-x86': [
  './config/archs/BSD-x86/asm/crypto/aes/aes-586.S',
  './config/archs/BSD-x86/asm/crypto/aes/aesni-x86.S',
  './config/archs/BSD-x86/asm/crypto/aes/vpaes-x86.S',
  './config/archs/BSD-x86/asm/crypto/bf/bf-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/bn-586.S',
  './config/archs/BSD-x86/asm/crypto/bn/co-586.S',
```

```
  './config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.S',
  './config/archs/BSD-x86/asm/crypto/bn/x86-mont.S',
  './config/archs/BSD-x86/asm/crypto/camellia/cmll-x86.S',
  './config/archs/BSD-x86/asm/crypto/chacha/chacha-x86.S',
  './config/archs/BSD-x86/asm/crypto/des/crypt586.S',
  './config/archs/BSD-x86/asm/crypto/des/des-586.S',
   './config/archs/BSD-x86/asm/crypto/ec/ecp_nistz256-x86.S',
  './config/archs/BSD-x86/asm/crypto/x86cpuid.S',
  './config/archs/BSD-x86/asm/crypto/md5/md5-586.S',
  './config/archs/BSD-x86/asm/crypto/modes/ghash-x86.S',
  './config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.S',
  './config/archs/BSD-x86/asm/crypto/rc4/rc4-586.S',
  './config/archs/BSD-x86/asm/crypto/ripemd/rmd-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha1-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha256-586.S',
  './config/archs/BSD-x86/asm/crypto/sha/sha512-586.S',
  './config/archs/BSD-x86/asm/crypto/whrlpool/wp-mmx.S',
  './config/archs/BSD-x86/asm/engines/e_padlock-x86.S',
  './config/archs/BSD-x86/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_ec_gen.c',
   './config/archs/BSD-x86/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86/asm/providers/legacy.ld',
  './config/archs/BSD-x86/asm/providers/fips.ld',

],
'openssl_defines_BSD-x86': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_BUILDING_OPENSSL',
  'AES_ASM',
  'DES_ASM',
  'ECP_NISTZ256_ASM',
  'FIPS_MODULE',
  'GHASH_ASM',
  'OPENSSL_BN_ASM_GF2m',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_PART_WORDS',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'VPAES_ASM',
  'FIPS_MODULE',
```

```
  ],
  'openssl_cflags_BSD-x86': [
    '-Wa,--noexecstack',
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
   ],
  'linker_script': ''
 },
 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags': ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],

 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
```

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```
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/opensslv.h.in
*
```

```
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*/

#ifndef OPENSSL_OPENSSLV_H
# define OPENSSL_OPENSSLV_H
# pragma once

# ifdef  __cplusplus
extern "C" {
# endif

/*
* SECTION 1: VERSION DATA.  These will change for each release
*/

/*
* Base version macros
*
* These macros express version number MAJOR.MINOR.PATCH exactly
*/
# define OPENSSL_VERSION_MAJOR  3
# define OPENSSL_VERSION_MINOR  0
# define OPENSSL_VERSION_PATCH  16

/*
* Additional version information
*
* These are also part of the new version scheme, but aren't part
* of the version number itself.
*/

/* Could be: #define OPENSSL_VERSION_PRE_RELEASE
 "-alpha.1" */
# define OPENSSL_VERSION_PRE_RELEASE ""
/* Could be: #define OPENSSL_VERSION_BUILD_METADATA "+fips" */
/* Could be: #define OPENSSL_VERSION_BUILD_METADATA "+vendor.1" */
# define OPENSSL_VERSION_BUILD_METADATA ""

/*
* Note: The OpenSSL Project will never define OPENSSL_VERSION_BUILD_METADATA
* to be anything but the empty string.  Its use is entirely reserved for
* others
*/
```

```
/*
* Shared library version
*
* This is strictly to express ABI version, which may or may not
* be related to the API version expressed with the macros above.
* This is defined in free form.
*/
# define OPENSSL_SHLIB_VERSION 3

/*
* SECTION 2: USEFUL MACROS
*/

/* For checking general API compatibility when preprocessing */
# define OPENSSL_VERSION_PREREQ(maj,min)                          \
   ((OPENSSL_VERSION_MAJOR << 16) + OPENSSL_VERSION_MINOR >= ((maj) << 16) + (min))

/*
* Macros to get the version in easily digested string form, both the short
* "MAJOR.MINOR.PATCH" variant
 (where MAJOR, MINOR and PATCH are replaced
* with the values from the corresponding OPENSSL_VERSION_ macros) and the
* longer variant with OPENSSL_VERSION_PRE_RELEASE_STR and
* OPENSSL_VERSION_BUILD_METADATA_STR appended.
*/
# define OPENSSL_VERSION_STR "3.0.16"
# define OPENSSL_FULL_VERSION_STR "3.0.16"

/*
* SECTION 3: ADDITIONAL METADATA
*
* These strings are defined separately to allow them to be parsable.
*/
# define OPENSSL_RELEASE_DATE "11 Feb 2025"

/*
* SECTION 4: BACKWARD COMPATIBILITY
*/

# define OPENSSL_VERSION_TEXT "OpenSSL 3.0.16 11 Feb 2025"

/* Synthesize OPENSSL_VERSION_NUMBER with the layout 0xMNN00PPSL */
# ifdef OPENSSL_VERSION_PRE_RELEASE
#  define _OPENSSL_VERSION_PRE_RELEASE 0x0L
# else
#  define _OPENSSL_VERSION_PRE_RELEASE 0xfL
# endif
```

```
# define OPENSSL_VERSION_NUMBER         \
   ( (OPENSSL_VERSION_MAJOR<<28)       \
    |(OPENSSL_VERSION_MINOR<<20)      \
    |(OPENSSL_VERSION_PATCH<<4)       \
    |_OPENSSL_VERSION_PRE_RELEASE )

#
 ifdef  __cplusplus
}
# endif

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_OPENSSLV_H
# endif

#endif                        /* OPENSSL_OPENSSLV_H */
```

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```
{
 'variables': {
   'openssl_defines_BSD-x86': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'AES_ASM',
     'CMLL_ASM',
     'DES_ASM',
     'ECP_NISTZ256_ASM',
     'GHASH_ASM',
     'MD5_ASM',
     'OPENSSL_BN_ASM_GF2m',
     'OPENSSL_BN_ASM_MONT',
     'OPENSSL_BN_ASM_PART_WORDS',
     'OPENSSL_CPUID_OBJ',
     'OPENSSL_IA32_SSE2',
     'PADLOCK_ASM',
     'POLY1305_ASM',
     'RC4_ASM',
     'RMD160_ASM',
     'SHA1_ASM',
     'SHA256_ASM',
     'SHA512_ASM',
     'VPAES_ASM',
     'WHIRLPOOL_ASM',
     'OPENSSL_PIC',
   ],
   'openssl_cflags_BSD-x86': [
     '-Wa,--noexecstack',
     '-Wall -O3 -fomit-frame-pointer',
     '-pthread',
     '-Wall -O3 -fomit-frame-pointer',
   ],
   'openssl_ex_libs_BSD-x86': [
     '-pthread',
   ],
   'openssl_cli_srcs_BSD-x86': [
     'openssl/apps/lib/cmp_mock_srv.c',
     'openssl/apps/asn1parse.c',
     'openssl/apps/ca.c',
     'openssl/apps/ciphers.c',
     'openssl/apps/cmp.c',
      'openssl/apps/cms.c',
     'openssl/apps/crl.c',
```

'openssl/apps/crl2pkcs7.c',
'openssl/apps/dgst.c',
'openssl/apps/dhparam.c',
'openssl/apps/dsa.c',
'openssl/apps/dsaparam.c',
'openssl/apps/ec.c',
'openssl/apps/ecparam.c',
'openssl/apps/enc.c',
'openssl/apps/engine.c',
'openssl/apps/errstr.c',
'openssl/apps/fipsinstall.c',
'openssl/apps/gendsa.c',
'openssl/apps/genpkey.c',
'openssl/apps/genrsa.c',
'openssl/apps/info.c',
'openssl/apps/kdf.c',
'openssl/apps/list.c',
'openssl/apps/mac.c',
'openssl/apps/nseq.c',
'openssl/apps/ocsp.c',
'openssl/apps/openssl.c',
'openssl/apps/passwd.c',
'openssl/apps/pkcs12.c',
'openssl/apps/pkcs7.c',
'openssl/apps/pkcs8.c',
'openssl/apps/pkey.c',
'openssl/apps/pkeyparam.c',
'openssl/apps/pkeyutl.c',
'openssl/apps/prime.c',
'./config/archs/BSD-x86/asm_avx2/apps/progs.c',
'openssl/apps/rand.c',
'openssl/apps/rehash.c',
'openssl/apps/req.c',
'openssl/apps/rsa.c',
'openssl/apps/rsautl.c',
'openssl/apps/s_client.c',
'openssl/apps/s_server.c',
'openssl/apps/s_time.c',
'openssl/apps/sess_id.c',
'openssl/apps/smime.c',
'openssl/apps/speed.c',
'openssl/apps/spkac.c',
'openssl/apps/srp.c',
'openssl/apps/storeutl.c',
'openssl/apps/ts.c',
'openssl/apps/verify.c',
'openssl/apps/version.c',
'openssl/apps/x509.c',

```
    'openssl/apps/lib/app_libctx.c',
    'openssl/apps/lib/app_params.c',
    'openssl/apps/lib/app_provider.c',
    'openssl/apps/lib/app_rand.c',
    'openssl/apps/lib/app_x509.c',
    'openssl/apps/lib/apps.c',
    'openssl/apps/lib/apps_ui.c',
    'openssl/apps/lib/columns.c',
    'openssl/apps/lib/engine.c',
    'openssl/apps/lib/engine_loader.c',
    'openssl/apps/lib/fmt.c',
    'openssl/apps/lib/http_server.c',

  'openssl/apps/lib/names.c',
    'openssl/apps/lib/opt.c',
    'openssl/apps/lib/s_cb.c',
    'openssl/apps/lib/s_socket.c',
    'openssl/apps/lib/tlssrp_depr.c',
  ],
 },
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'include_dirs': [
  './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
```

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```
/*
* WARNING: do not edit!
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```

```
* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_CMP_H
# define OPENSSL_CMP_H

# include <openssl/opensslconf.h>
# ifndef OPENSSL_NO_CMP

#  include <openssl/crmf.h>
#  include <openssl/cmperr.h>
#  include <openssl/cmp_util.h>
#  include <openssl/http.h>

/* explicit #includes not strictly needed since implied by the above: */
#  include <openssl/types.h>
#  include <openssl/safestack.h>
#  include <openssl/x509.h>
#  include <openssl/x509v3.h>

#  ifdef __cplusplus
extern "C" {
#  endif

#  define OSSL_CMP_PVNO 2

/*-
*   PKIFailureInfo ::=
 BIT STRING {
*   -- since we can fail in more than one way!
*   -- More codes may be added in the future if/when required.
*       badAlg              (0),
*       -- unrecognized or unsupported Algorithm Identifier
*       badMessageCheck     (1),
*       -- integrity check failed (e.g., signature did not verify)
*       badRequest          (2),
*       -- transaction not permitted or supported
*       badTime             (3),
*       -- messageTime was not sufficiently close to the system time,
*       -- as defined by local policy
*       badCertId           (4),
*       -- no certificate could be found matching the provided criteria
*       badDataFormat       (5),
*       -- the data submitted has the wrong format
*       wrongAuthority      (6),
*       -- the authority indicated in the request is different from the
```

```
*       -- one creating the response token
*       incorrectData       (7),
*       -- the requester's data is incorrect (for notary services)
*
        missingTimeStamp    (8),
*       -- when the timestamp is missing but should be there
*       -- (by policy)
*       badPOP              (9),
*       -- the proof-of-possession failed
*       certRevoked         (10),
*         -- the certificate has already been revoked
*       certConfirmed       (11),
*         -- the certificate has already been confirmed
*       wrongIntegrity      (12),
*         -- invalid integrity, password based instead of signature or
*         -- vice versa
*       badRecipientNonce   (13),
*         -- invalid recipient nonce, either missing or wrong value
*       timeNotAvailable    (14),
*         -- the TSA's time source is not available
*       unacceptedPolicy    (15),
*         -- the requested TSA policy is not supported by the TSA.
*       unacceptedExtension (16),
*         -- the requested extension is not supported by the TSA.
*       addInfoNotAvailable (17),
*         -- the additional information requested
 could not be
*         -- understood or is not available
*       badSenderNonce      (18),
*         -- invalid sender nonce, either missing or wrong size
*       badCertTemplate     (19),
*         -- invalid cert. template or missing mandatory information
*       signerNotTrusted    (20),
*         -- signer of the message unknown or not trusted
*       transactionIdInUse  (21),
*         -- the transaction identifier is already in use
*       unsupportedVersion  (22),
*         -- the version of the message is not supported
*       notAuthorized       (23),
*         -- the sender was not authorized to make the preceding
*         -- request or perform the preceding action
*       systemUnavail       (24),
*       -- the request cannot be handled due to system unavailability
*       systemFailure       (25),
*       -- the request cannot be handled due to system failure
*       duplicateCertReq    (26)
*       -- certificate cannot be issued because a duplicate
```

```
 *      -- certificate already exists
*   }
*/
#  define OSSL_CMP_PKIFAILUREINFO_badAlg 0
#  define OSSL_CMP_PKIFAILUREINFO_badMessageCheck 1
#  define OSSL_CMP_PKIFAILUREINFO_badRequest 2
#  define OSSL_CMP_PKIFAILUREINFO_badTime 3
#  define OSSL_CMP_PKIFAILUREINFO_badCertId 4
#  define OSSL_CMP_PKIFAILUREINFO_badDataFormat 5
#  define OSSL_CMP_PKIFAILUREINFO_wrongAuthority 6
#  define OSSL_CMP_PKIFAILUREINFO_incorrectData 7
#  define OSSL_CMP_PKIFAILUREINFO_missingTimeStamp 8
#  define OSSL_CMP_PKIFAILUREINFO_badPOP 9
#  define OSSL_CMP_PKIFAILUREINFO_certRevoked 10
#  define OSSL_CMP_PKIFAILUREINFO_certConfirmed 11
#  define OSSL_CMP_PKIFAILUREINFO_wrongIntegrity 12
#  define OSSL_CMP_PKIFAILUREINFO_badRecipientNonce 13
#  define OSSL_CMP_PKIFAILUREINFO_timeNotAvailable 14
#  define OSSL_CMP_PKIFAILUREINFO_unacceptedPolicy 15
#  define OSSL_CMP_PKIFAILUREINFO_unacceptedExtension 16
#  define OSSL_CMP_PKIFAILUREINFO_addInfoNotAvailable 17
#  define OSSL_CMP_PKIFAILUREINFO_badSenderNonce
 18
#  define OSSL_CMP_PKIFAILUREINFO_badCertTemplate 19
#  define OSSL_CMP_PKIFAILUREINFO_signerNotTrusted 20
#  define OSSL_CMP_PKIFAILUREINFO_transactionIdInUse 21
#  define OSSL_CMP_PKIFAILUREINFO_unsupportedVersion 22
#  define OSSL_CMP_PKIFAILUREINFO_notAuthorized 23
#  define OSSL_CMP_PKIFAILUREINFO_systemUnavail 24
#  define OSSL_CMP_PKIFAILUREINFO_systemFailure 25
#  define OSSL_CMP_PKIFAILUREINFO_duplicateCertReq 26
#  define OSSL_CMP_PKIFAILUREINFO_MAX 26
#  define OSSL_CMP_PKIFAILUREINFO_MAX_BIT_PATTERN \
   ((1 << (OSSL_CMP_PKIFAILUREINFO_MAX + 1)) - 1)
#  if OSSL_CMP_PKIFAILUREINFO_MAX_BIT_PATTERN > INT_MAX
#   error CMP_PKIFAILUREINFO_MAX bit pattern does not fit in type int
#  endif

typedef ASN1_BIT_STRING OSSL_CMP_PKIFAILUREINFO;

#  define OSSL_CMP_CTX_FAILINFO_badAlg (1 << 0)
#  define OSSL_CMP_CTX_FAILINFO_badMessageCheck (1 << 1)
#  define OSSL_CMP_CTX_FAILINFO_badRequest (1 << 2)
#  define OSSL_CMP_CTX_FAILINFO_badTime (1 << 3)
#  define OSSL_CMP_CTX_FAILINFO_badCertId
 (1 << 4)
#  define OSSL_CMP_CTX_FAILINFO_badDataFormat (1 << 5)
#  define OSSL_CMP_CTX_FAILINFO_wrongAuthority (1 << 6)
```

```
# define OSSL_CMP_CTX_FAILINFO_incorrectData (1 << 7)
# define OSSL_CMP_CTX_FAILINFO_missingTimeStamp (1 << 8)
# define OSSL_CMP_CTX_FAILINFO_badPOP (1 << 9)
# define OSSL_CMP_CTX_FAILINFO_certRevoked (1 << 10)
# define OSSL_CMP_CTX_FAILINFO_certConfirmed (1 << 11)
# define OSSL_CMP_CTX_FAILINFO_wrongIntegrity (1 << 12)
# define OSSL_CMP_CTX_FAILINFO_badRecipientNonce (1 << 13)
# define OSSL_CMP_CTX_FAILINFO_timeNotAvailable (1 << 14)
# define OSSL_CMP_CTX_FAILINFO_unacceptedPolicy (1 << 15)
# define OSSL_CMP_CTX_FAILINFO_unacceptedExtension (1 << 16)
# define OSSL_CMP_CTX_FAILINFO_addInfoNotAvailable (1 << 17)
# define OSSL_CMP_CTX_FAILINFO_badSenderNonce (1 << 18)
# define OSSL_CMP_CTX_FAILINFO_badCertTemplate (1 << 19)
# define OSSL_CMP_CTX_FAILINFO_signerNotTrusted (1 << 20)
# define OSSL_CMP_CTX_FAILINFO_transactionIdInUse (1
 << 21)
# define OSSL_CMP_CTX_FAILINFO_unsupportedVersion (1 << 22)
# define OSSL_CMP_CTX_FAILINFO_notAuthorized (1 << 23)
# define OSSL_CMP_CTX_FAILINFO_systemUnavail (1 << 24)
# define OSSL_CMP_CTX_FAILINFO_systemFailure (1 << 25)
# define OSSL_CMP_CTX_FAILINFO_duplicateCertReq (1 << 26)

/*-
*   PKIStatus ::= INTEGER {
*       accepted                (0),
*       -- you got exactly what you asked for
*       grantedWithMods         (1),
*       -- you got something like what you asked for; the
*       -- requester is responsible for ascertaining the differences
*       rejection               (2),
*       -- you don't get it, more information elsewhere in the message
*       waiting                 (3),
*       -- the request body part has not yet been processed; expect to
*       -- hear more later (note: proper handling of this status
*       -- response MAY use the polling req/rep PKIMessages specified
*       -- in Section 5.3.22; alternatively, polling in the underlying
 *       -- transport layer MAY have some utility in this regard)
*       revocationWarning       (4),
*       -- this message contains a warning that a revocation is
*       -- imminent
*       revocationNotification (5),
*       -- notification that a revocation has occurred
*       keyUpdateWarning        (6)
*       -- update already done for the oldCertId specified in
*       -- CertReqMsg
*   }
*/
# define OSSL_CMP_PKISTATUS_request               -3
```

```
#  define OSSL_CMP_PKISTATUS_trans                -2
#  define OSSL_CMP_PKISTATUS_unspecified           -1
#  define OSSL_CMP_PKISTATUS_accepted              0
#  define OSSL_CMP_PKISTATUS_grantedWithMods       1
#  define OSSL_CMP_PKISTATUS_rejection             2
#  define OSSL_CMP_PKISTATUS_waiting               3
#  define OSSL_CMP_PKISTATUS_revocationWarning     4
#  define OSSL_CMP_PKISTATUS_revocationNotification 5
#  define OSSL_CMP_PKISTATUS_keyUpdateWarning      6

typedef ASN1_INTEGER OSSL_CMP_PKISTATUS;
DECLARE_ASN1_ITEM(OSSL_CMP_PKISTATUS)

#
  define OSSL_CMP_CERTORENCCERT_CERTIFICATE 0
#  define OSSL_CMP_CERTORENCCERT_ENCRYPTEDCERT 1

/* data type declarations */
typedef struct ossl_cmp_ctx_st OSSL_CMP_CTX;
typedef struct ossl_cmp_pkiheader_st OSSL_CMP_PKIHEADER;
DECLARE_ASN1_FUNCTIONS(OSSL_CMP_PKIHEADER)
typedef struct ossl_cmp_msg_st OSSL_CMP_MSG;
DECLARE_ASN1_DUP_FUNCTION(OSSL_CMP_MSG)
DECLARE_ASN1_ENCODE_FUNCTIONS(OSSL_CMP_MSG, OSSL_CMP_MSG, OSSL_CMP_MSG)
typedef struct ossl_cmp_certstatus_st OSSL_CMP_CERTSTATUS;
SKM_DEFINE_STACK_OF_INTERNAL(OSSL_CMP_CERTSTATUS, OSSL_CMP_CERTSTATUS,
OSSL_CMP_CERTSTATUS)
#define sk_OSSL_CMP_CERTSTATUS_num(sk)
OPENSSL_sk_num(ossl_check_const_OSSL_CMP_CERTSTATUS_sk_type(sk))
#define sk_OSSL_CMP_CERTSTATUS_value(sk, idx) ((OSSL_CMP_CERTSTATUS
*)OPENSSL_sk_value(ossl_check_const_OSSL_CMP_CERTSTATUS_sk_type(sk), (idx)))
#define sk_OSSL_CMP_CERTSTATUS_new(cmp) ((STACK_OF(OSSL_CMP_CERTSTATUS)
*)OPENSSL_sk_new(ossl_check_OSSL_CMP_CERTSTATUS_compfunc_type(cmp)))
#define
 sk_OSSL_CMP_CERTSTATUS_new_null() ((STACK_OF(OSSL_CMP_CERTSTATUS)
*)OPENSSL_sk_new_null())
#define sk_OSSL_CMP_CERTSTATUS_new_reserve(cmp, n) ((STACK_OF(OSSL_CMP_CERTSTATUS)
*)OPENSSL_sk_new_reserve(ossl_check_OSSL_CMP_CERTSTATUS_compfunc_type(cmp), (n)))
#define sk_OSSL_CMP_CERTSTATUS_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk), (n))
#define sk_OSSL_CMP_CERTSTATUS_free(sk)
OPENSSL_sk_free(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk))
#define sk_OSSL_CMP_CERTSTATUS_zero(sk)
OPENSSL_sk_zero(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk))
#define sk_OSSL_CMP_CERTSTATUS_delete(sk, i) ((OSSL_CMP_CERTSTATUS
*)OPENSSL_sk_delete(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk), (i)))
#define sk_OSSL_CMP_CERTSTATUS_delete_ptr(sk, ptr) ((OSSL_CMP_CERTSTATUS
*)OPENSSL_sk_delete_ptr(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk),
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ossl_check_OSSL_CMP_CERTSTATUS_type(ptr)))
#define sk_OSSL_CMP_CERTSTATUS_push(sk, ptr)
OPENSSL_sk_push(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk),
 ossl_check_OSSL_CMP_CERTSTATUS_type(ptr))
#define sk_OSSL_CMP_CERTSTATUS_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk),
ossl_check_OSSL_CMP_CERTSTATUS_type(ptr))
#define sk_OSSL_CMP_CERTSTATUS_pop(sk) ((OSSL_CMP_CERTSTATUS
*)OPENSSL_sk_pop(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk)))
#define sk_OSSL_CMP_CERTSTATUS_shift(sk) ((OSSL_CMP_CERTSTATUS
*)OPENSSL_sk_shift(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk)))
#define sk_OSSL_CMP_CERTSTATUS_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk),ossl_check_OSSL_CMP_CERTST
ATUS_freefunc_type(freefunc))
#define sk_OSSL_CMP_CERTSTATUS_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk),
ossl_check_OSSL_CMP_CERTSTATUS_type(ptr), (idx))
#define sk_OSSL_CMP_CERTSTATUS_set(sk, idx, ptr) ((OSSL_CMP_CERTSTATUS
*)OPENSSL_sk_set(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk), (idx),
ossl_check_OSSL_CMP_CERTSTATUS_type(ptr)))
#define sk_OSSL_CMP_CERTSTATUS_find(sk,
 ptr) OPENSSL_sk_find(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk),
ossl_check_OSSL_CMP_CERTSTATUS_type(ptr))
#define sk_OSSL_CMP_CERTSTATUS_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk),
ossl_check_OSSL_CMP_CERTSTATUS_type(ptr))
#define sk_OSSL_CMP_CERTSTATUS_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk),
ossl_check_OSSL_CMP_CERTSTATUS_type(ptr), pnum)
#define sk_OSSL_CMP_CERTSTATUS_sort(sk)
OPENSSL_sk_sort(ossl_check_OSSL_CMP_CERTSTATUS_sk_type(sk))
#define sk_OSSL_CMP_CERTSTATUS_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OSSL_CMP_CERTSTATUS_sk_type(sk))
#define sk_OSSL_CMP_CERTSTATUS_dup(sk) ((STACK_OF(OSSL_CMP_CERTSTATUS)
*)OPENSSL_sk_dup(ossl_check_const_OSSL_CMP_CERTSTATUS_sk_type(sk)))
#define sk_OSSL_CMP_CERTSTATUS_deep_copy(sk, copyfunc, freefunc)
((STACK_OF(OSSL_CMP_CERTSTATUS)
*)OPENSSL_sk_deep_copy(ossl_check_const_OSSL_CMP_CERTSTATUS_sk_type(sk),
ossl_check_OSSL_CMP_CERTSTATUS_copyfunc_type(copyfunc),
 ossl_check_OSSL_CMP_CERTSTATUS_freefunc_type(freefunc)))
#define sk_OSSL_CMP_CERTSTATUS_set_cmp_func(sk, cmp)
((sk_OSSL_CMP_CERTSTATUS_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OSSL_CMP_CERTSTAT
US_sk_type(sk), ossl_check_OSSL_CMP_CERTSTATUS_compfunc_type(cmp)))

typedef struct ossl_cmp_itav_st OSSL_CMP_ITAV;
DECLARE_ASN1_DUP_FUNCTION(OSSL_CMP_ITAV)
SKM_DEFINE_STACK_OF_INTERNAL(OSSL_CMP_ITAV, OSSL_CMP_ITAV, OSSL_CMP_ITAV)
#define sk_OSSL_CMP_ITAV_num(sk) OPENSSL_sk_num(ossl_check_const_OSSL_CMP_ITAV_sk_type(sk))
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#define sk_OSSL_CMP_ITAV_value(sk, idx) ((OSSL_CMP_ITAV
*)OPENSSL_sk_value(ossl_check_const_OSSL_CMP_ITAV_sk_type(sk), (idx)))
#define sk_OSSL_CMP_ITAV_new(cmp) ((STACK_OF(OSSL_CMP_ITAV)
*)OPENSSL_sk_new(ossl_check_OSSL_CMP_ITAV_compfunc_type(cmp)))
#define sk_OSSL_CMP_ITAV_new_null() ((STACK_OF(OSSL_CMP_ITAV) *)OPENSSL_sk_new_null())
#define sk_OSSL_CMP_ITAV_new_reserve(cmp, n) ((STACK_OF(OSSL_CMP_ITAV)
*)OPENSSL_sk_new_reserve(ossl_check_OSSL_CMP_ITAV_compfunc_type(cmp),
 (n)))
#define sk_OSSL_CMP_ITAV_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_OSSL_CMP_ITAV_sk_type(sk),
(n))
#define sk_OSSL_CMP_ITAV_free(sk) OPENSSL_sk_free(ossl_check_OSSL_CMP_ITAV_sk_type(sk))
#define sk_OSSL_CMP_ITAV_zero(sk) OPENSSL_sk_zero(ossl_check_OSSL_CMP_ITAV_sk_type(sk))
#define sk_OSSL_CMP_ITAV_delete(sk, i) ((OSSL_CMP_ITAV
*)OPENSSL_sk_delete(ossl_check_OSSL_CMP_ITAV_sk_type(sk), (i)))
#define sk_OSSL_CMP_ITAV_delete_ptr(sk, ptr) ((OSSL_CMP_ITAV
*)OPENSSL_sk_delete_ptr(ossl_check_OSSL_CMP_ITAV_sk_type(sk),
ossl_check_OSSL_CMP_ITAV_type(ptr)))
#define sk_OSSL_CMP_ITAV_push(sk, ptr) OPENSSL_sk_push(ossl_check_OSSL_CMP_ITAV_sk_type(sk),
ossl_check_OSSL_CMP_ITAV_type(ptr))
#define sk_OSSL_CMP_ITAV_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OSSL_CMP_ITAV_sk_type(sk), ossl_check_OSSL_CMP_ITAV_type(ptr))
#define sk_OSSL_CMP_ITAV_pop(sk) ((OSSL_CMP_ITAV
*)OPENSSL_sk_pop(ossl_check_OSSL_CMP_ITAV_sk_type(sk)))
#define sk_OSSL_CMP_ITAV_shift(sk) ((OSSL_CMP_ITAV
 *)OPENSSL_sk_shift(ossl_check_OSSL_CMP_ITAV_sk_type(sk)))
#define sk_OSSL_CMP_ITAV_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OSSL_CMP_ITAV_sk_type(sk),ossl_check_OSSL_CMP_ITAV_freefunc_ty
pe(freefunc))
#define sk_OSSL_CMP_ITAV_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OSSL_CMP_ITAV_sk_type(sk), ossl_check_OSSL_CMP_ITAV_type(ptr),
(idx))
#define sk_OSSL_CMP_ITAV_set(sk, idx, ptr) ((OSSL_CMP_ITAV
*)OPENSSL_sk_set(ossl_check_OSSL_CMP_ITAV_sk_type(sk), (idx),
ossl_check_OSSL_CMP_ITAV_type(ptr)))
#define sk_OSSL_CMP_ITAV_find(sk, ptr) OPENSSL_sk_find(ossl_check_OSSL_CMP_ITAV_sk_type(sk),
ossl_check_OSSL_CMP_ITAV_type(ptr))
#define sk_OSSL_CMP_ITAV_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OSSL_CMP_ITAV_sk_type(sk), ossl_check_OSSL_CMP_ITAV_type(ptr))
#define sk_OSSL_CMP_ITAV_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OSSL_CMP_ITAV_sk_type(sk), ossl_check_OSSL_CMP_ITAV_type(ptr),
pnum)
#define sk_OSSL_CMP_ITAV_sort(sk) OPENSSL_sk_sort(ossl_check_OSSL_CMP_ITAV_sk_type(sk))
#define
 sk_OSSL_CMP_ITAV_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_OSSL_CMP_ITAV_sk_type(sk))
#define sk_OSSL_CMP_ITAV_dup(sk) ((STACK_OF(OSSL_CMP_ITAV)
*)OPENSSL_sk_dup(ossl_check_const_OSSL_CMP_ITAV_sk_type(sk)))
#define sk_OSSL_CMP_ITAV_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OSSL_CMP_ITAV)
*)OPENSSL_sk_deep_copy(ossl_check_const_OSSL_CMP_ITAV_sk_type(sk),
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ossl_check_OSSL_CMP_ITAV_copyfunc_type(copyfunc),
ossl_check_OSSL_CMP_ITAV_freefunc_type(freefunc)))
#define sk_OSSL_CMP_ITAV_set_cmp_func(sk, cmp)
((sk_OSSL_CMP_ITAV_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OSSL_CMP_ITAV_sk_type(sk),
ossl_check_OSSL_CMP_ITAV_compfunc_type(cmp)))

typedef struct ossl_cmp_revrepcontent_st OSSL_CMP_REVREPCONTENT;
typedef struct ossl_cmp_pkisi_st OSSL_CMP_PKISI;
DECLARE_ASN1_FUNCTIONS(OSSL_CMP_PKISI)
DECLARE_ASN1_DUP_FUNCTION(OSSL_CMP_PKISI)
SKM_DEFINE_STACK_OF_INTERNAL(OSSL_CMP_PKISI, OSSL_CMP_PKISI, OSSL_CMP_PKISI)
#define sk_OSSL_CMP_PKISI_num(sk) OPENSSL_sk_num(ossl_check_const_OSSL_CMP_PKISI_sk_type(sk))
#define
 sk_OSSL_CMP_PKISI_value(sk, idx) ((OSSL_CMP_PKISI
*)OPENSSL_sk_value(ossl_check_const_OSSL_CMP_PKISI_sk_type(sk), (idx)))
#define sk_OSSL_CMP_PKISI_new(cmp) ((STACK_OF(OSSL_CMP_PKISI)
*)OPENSSL_sk_new(ossl_check_OSSL_CMP_PKISI_compfunc_type(cmp)))
#define sk_OSSL_CMP_PKISI_new_null() ((STACK_OF(OSSL_CMP_PKISI) *)OPENSSL_sk_new_null())
#define sk_OSSL_CMP_PKISI_new_reserve(cmp, n) ((STACK_OF(OSSL_CMP_PKISI)
*)OPENSSL_sk_new_reserve(ossl_check_OSSL_CMP_PKISI_compfunc_type(cmp), (n)))
#define sk_OSSL_CMP_PKISI_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_OSSL_CMP_PKISI_sk_type(sk),
(n))
#define sk_OSSL_CMP_PKISI_free(sk) OPENSSL_sk_free(ossl_check_OSSL_CMP_PKISI_sk_type(sk))
#define sk_OSSL_CMP_PKISI_zero(sk) OPENSSL_sk_zero(ossl_check_OSSL_CMP_PKISI_sk_type(sk))
#define sk_OSSL_CMP_PKISI_delete(sk, i) ((OSSL_CMP_PKISI
*)OPENSSL_sk_delete(ossl_check_OSSL_CMP_PKISI_sk_type(sk), (i)))
#define sk_OSSL_CMP_PKISI_delete_ptr(sk, ptr)
 ((OSSL_CMP_PKISI *)OPENSSL_sk_delete_ptr(ossl_check_OSSL_CMP_PKISI_sk_type(sk),
ossl_check_OSSL_CMP_PKISI_type(ptr)))
#define sk_OSSL_CMP_PKISI_push(sk, ptr) OPENSSL_sk_push(ossl_check_OSSL_CMP_PKISI_sk_type(sk),
ossl_check_OSSL_CMP_PKISI_type(ptr))
#define sk_OSSL_CMP_PKISI_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OSSL_CMP_PKISI_sk_type(sk), ossl_check_OSSL_CMP_PKISI_type(ptr))
#define sk_OSSL_CMP_PKISI_pop(sk) ((OSSL_CMP_PKISI
*)OPENSSL_sk_pop(ossl_check_OSSL_CMP_PKISI_sk_type(sk)))
#define sk_OSSL_CMP_PKISI_shift(sk) ((OSSL_CMP_PKISI
*)OPENSSL_sk_shift(ossl_check_OSSL_CMP_PKISI_sk_type(sk)))
#define sk_OSSL_CMP_PKISI_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OSSL_CMP_PKISI_sk_type(sk),ossl_check_OSSL_CMP_PKISI_freefunc_ty
pe(freefunc))
#define sk_OSSL_CMP_PKISI_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OSSL_CMP_PKISI_sk_type(sk), ossl_check_OSSL_CMP_PKISI_type(ptr),
(idx))
#define sk_OSSL_CMP_PKISI_set(sk, idx, ptr) ((OSSL_CMP_PKISI
*)OPENSSL_sk_set(ossl_check_OSSL_CMP_PKISI_sk_type(sk),
 (idx), ossl_check_OSSL_CMP_PKISI_type(ptr)))
#define sk_OSSL_CMP_PKISI_find(sk, ptr) OPENSSL_sk_find(ossl_check_OSSL_CMP_PKISI_sk_type(sk),
ossl_check_OSSL_CMP_PKISI_type(ptr))
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#define sk_OSSL_CMP_PKISI_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OSSL_CMP_PKISI_sk_type(sk), ossl_check_OSSL_CMP_PKISI_type(ptr))
#define sk_OSSL_CMP_PKISI_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OSSL_CMP_PKISI_sk_type(sk), ossl_check_OSSL_CMP_PKISI_type(ptr),
pnum)
#define sk_OSSL_CMP_PKISI_sort(sk) OPENSSL_sk_sort(ossl_check_OSSL_CMP_PKISI_sk_type(sk))
#define sk_OSSL_CMP_PKISI_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OSSL_CMP_PKISI_sk_type(sk))
#define sk_OSSL_CMP_PKISI_dup(sk) ((STACK_OF(OSSL_CMP_PKISI)
*)OPENSSL_sk_dup(ossl_check_const_OSSL_CMP_PKISI_sk_type(sk)))
#define sk_OSSL_CMP_PKISI_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OSSL_CMP_PKISI)
*)OPENSSL_sk_deep_copy(ossl_check_const_OSSL_CMP_PKISI_sk_type(sk),
ossl_check_OSSL_CMP_PKISI_copyfunc_type(copyfunc),
 ossl_check_OSSL_CMP_PKISI_freefunc_type(freefunc)))
#define sk_OSSL_CMP_PKISI_set_cmp_func(sk, cmp)
((sk_OSSL_CMP_PKISI_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OSSL_CMP_PKISI_sk_type(sk),
ossl_check_OSSL_CMP_PKISI_compfunc_type(cmp)))

typedef struct ossl_cmp_certrepmessage_st OSSL_CMP_CERTREPMESSAGE;
SKM_DEFINE_STACK_OF_INTERNAL(OSSL_CMP_CERTREPMESSAGE,
OSSL_CMP_CERTREPMESSAGE, OSSL_CMP_CERTREPMESSAGE)
#define sk_OSSL_CMP_CERTREPMESSAGE_num(sk)
OPENSSL_sk_num(ossl_check_const_OSSL_CMP_CERTREPMESSAGE_sk_type(sk))
#define sk_OSSL_CMP_CERTREPMESSAGE_value(sk, idx) ((OSSL_CMP_CERTREPMESSAGE
*)OPENSSL_sk_value(ossl_check_const_OSSL_CMP_CERTREPMESSAGE_sk_type(sk), (idx)))
#define sk_OSSL_CMP_CERTREPMESSAGE_new(cmp) ((STACK_OF(OSSL_CMP_CERTREPMESSAGE)
*)OPENSSL_sk_new(ossl_check_OSSL_CMP_CERTREPMESSAGE_compfunc_type(cmp)))
#define sk_OSSL_CMP_CERTREPMESSAGE_new_null() ((STACK_OF(OSSL_CMP_CERTREPMESSAGE)
*)OPENSSL_sk_new_null())
#define sk_OSSL_CMP_CERTREPMESSAGE_new_reserve(cmp,
 n) ((STACK_OF(OSSL_CMP_CERTREPMESSAGE)
*)OPENSSL_sk_new_reserve(ossl_check_OSSL_CMP_CERTREPMESSAGE_compfunc_type(cmp), (n)))
#define sk_OSSL_CMP_CERTREPMESSAGE_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk), (n))
#define sk_OSSL_CMP_CERTREPMESSAGE_free(sk)
OPENSSL_sk_free(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk))
#define sk_OSSL_CMP_CERTREPMESSAGE_zero(sk)
OPENSSL_sk_zero(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk))
#define sk_OSSL_CMP_CERTREPMESSAGE_delete(sk, i) ((OSSL_CMP_CERTREPMESSAGE
*)OPENSSL_sk_delete(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk), (i)))
#define sk_OSSL_CMP_CERTREPMESSAGE_delete_ptr(sk, ptr) ((OSSL_CMP_CERTREPMESSAGE
*)OPENSSL_sk_delete_ptr(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),
ossl_check_OSSL_CMP_CERTREPMESSAGE_type(ptr)))
#define sk_OSSL_CMP_CERTREPMESSAGE_push(sk, ptr)
OPENSSL_sk_push(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),
ossl_check_OSSL_CMP_CERTREPMESSAGE_type(ptr))
#define sk_OSSL_CMP_CERTREPMESSAGE_unshift(sk,
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 ptr) OPENSSL_sk_unshift(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),
ossl_check_OSSL_CMP_CERTREPMESSAGE_type(ptr))
#define sk_OSSL_CMP_CERTREPMESSAGE_pop(sk) ((OSSL_CMP_CERTREPMESSAGE
*)OPENSSL_sk_pop(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk)))
#define sk_OSSL_CMP_CERTREPMESSAGE_shift(sk) ((OSSL_CMP_CERTREPMESSAGE
*)OPENSSL_sk_shift(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk)))
#define sk_OSSL_CMP_CERTREPMESSAGE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),ossl_check_OSSL_CMP_CE
RTREPMESSAGE_freefunc_type(freefunc))
#define sk_OSSL_CMP_CERTREPMESSAGE_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),
ossl_check_OSSL_CMP_CERTREPMESSAGE_type(ptr), (idx))
#define sk_OSSL_CMP_CERTREPMESSAGE_set(sk, idx, ptr) ((OSSL_CMP_CERTREPMESSAGE
*)OPENSSL_sk_set(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk), (idx),
ossl_check_OSSL_CMP_CERTREPMESSAGE_type(ptr)))
#define sk_OSSL_CMP_CERTREPMESSAGE_find(sk,
 ptr) OPENSSL_sk_find(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),
ossl_check_OSSL_CMP_CERTREPMESSAGE_type(ptr))
#define sk_OSSL_CMP_CERTREPMESSAGE_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),
ossl_check_OSSL_CMP_CERTREPMESSAGE_type(ptr))
#define sk_OSSL_CMP_CERTREPMESSAGE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),
ossl_check_OSSL_CMP_CERTREPMESSAGE_type(ptr), pnum)
#define sk_OSSL_CMP_CERTREPMESSAGE_sort(sk)
OPENSSL_sk_sort(ossl_check_OSSL_CMP_CERTREPMESSAGE_sk_type(sk))
#define sk_OSSL_CMP_CERTREPMESSAGE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OSSL_CMP_CERTREPMESSAGE_sk_type(sk))
#define sk_OSSL_CMP_CERTREPMESSAGE_dup(sk) ((STACK_OF(OSSL_CMP_CERTREPMESSAGE)
*)OPENSSL_sk_dup(ossl_check_const_OSSL_CMP_CERTREPMESSAGE_sk_type(sk)))
#define sk_OSSL_CMP_CERTREPMESSAGE_deep_copy(sk, copyfunc, freefunc)
((STACK_OF(OSSL_CMP_CERTREPMESSAGE)
*)OPENSSL_sk_deep_copy(ossl_check_const_OSSL_CMP_CERTREPMESSAGE_sk_type(sk),
 ossl_check_OSSL_CMP_CERTREPMESSAGE_copyfunc_type(copyfunc),
ossl_check_OSSL_CMP_CERTREPMESSAGE_freefunc_type(freefunc)))
#define sk_OSSL_CMP_CERTREPMESSAGE_set_cmp_func(sk, cmp)
((sk_OSSL_CMP_CERTREPMESSAGE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OSSL_CMP_CERT
REPMESSAGE_sk_type(sk), ossl_check_OSSL_CMP_CERTREPMESSAGE_compfunc_type(cmp)))

typedef struct ossl_cmp_pollrep_st OSSL_CMP_POLLREP;
typedef STACK_OF(OSSL_CMP_POLLREP) OSSL_CMP_POLLREPCONTENT;
typedef struct ossl_cmp_certresponse_st OSSL_CMP_CERTRESPONSE;
SKM_DEFINE_STACK_OF_INTERNAL(OSSL_CMP_CERTRESPONSE, OSSL_CMP_CERTRESPONSE,
OSSL_CMP_CERTRESPONSE)
#define sk_OSSL_CMP_CERTRESPONSE_num(sk)
OPENSSL_sk_num(ossl_check_const_OSSL_CMP_CERTRESPONSE_sk_type(sk))
#define sk_OSSL_CMP_CERTRESPONSE_value(sk, idx) ((OSSL_CMP_CERTRESPONSE
*)OPENSSL_sk_value(ossl_check_const_OSSL_CMP_CERTRESPONSE_sk_type(sk), (idx)))
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#define sk_OSSL_CMP_CERTRESPONSE_new(cmp) ((STACK_OF(OSSL_CMP_CERTRESPONSE)
 *)OPENSSL_sk_new(ossl_check_OSSL_CMP_CERTRESPONSE_compfunc_type(cmp)))
#define sk_OSSL_CMP_CERTRESPONSE_new_null() ((STACK_OF(OSSL_CMP_CERTRESPONSE)
*)OPENSSL_sk_new_null())
#define sk_OSSL_CMP_CERTRESPONSE_new_reserve(cmp, n) ((STACK_OF(OSSL_CMP_CERTRESPONSE)
*)OPENSSL_sk_new_reserve(ossl_check_OSSL_CMP_CERTRESPONSE_compfunc_type(cmp), (n)))
#define sk_OSSL_CMP_CERTRESPONSE_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk), (n))
#define sk_OSSL_CMP_CERTRESPONSE_free(sk)
OPENSSL_sk_free(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk))
#define sk_OSSL_CMP_CERTRESPONSE_zero(sk)
OPENSSL_sk_zero(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk))
#define sk_OSSL_CMP_CERTRESPONSE_delete(sk, i) ((OSSL_CMP_CERTRESPONSE
*)OPENSSL_sk_delete(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk), (i)))
#define sk_OSSL_CMP_CERTRESPONSE_delete_ptr(sk, ptr) ((OSSL_CMP_CERTRESPONSE
*)OPENSSL_sk_delete_ptr(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk),
ossl_check_OSSL_CMP_CERTRESPONSE_type(ptr)))
#define
 sk_OSSL_CMP_CERTRESPONSE_push(sk, ptr)
OPENSSL_sk_push(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk),
ossl_check_OSSL_CMP_CERTRESPONSE_type(ptr))
#define sk_OSSL_CMP_CERTRESPONSE_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk),
ossl_check_OSSL_CMP_CERTRESPONSE_type(ptr))
#define sk_OSSL_CMP_CERTRESPONSE_pop(sk) ((OSSL_CMP_CERTRESPONSE
*)OPENSSL_sk_pop(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk)))
#define sk_OSSL_CMP_CERTRESPONSE_shift(sk) ((OSSL_CMP_CERTRESPONSE
*)OPENSSL_sk_shift(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk)))
#define sk_OSSL_CMP_CERTRESPONSE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk),ossl_check_OSSL_CMP_CERT
RESPONSE_freefunc_type(freefunc))
#define sk_OSSL_CMP_CERTRESPONSE_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk),
ossl_check_OSSL_CMP_CERTRESPONSE_type(ptr), (idx))
#define sk_OSSL_CMP_CERTRESPONSE_set(sk, idx, ptr) ((OSSL_CMP_CERTRESPONSE
 *)OPENSSL_sk_set(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk), (idx),
ossl_check_OSSL_CMP_CERTRESPONSE_type(ptr)))
#define sk_OSSL_CMP_CERTRESPONSE_find(sk, ptr)
OPENSSL_sk_find(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk),
ossl_check_OSSL_CMP_CERTRESPONSE_type(ptr))
#define sk_OSSL_CMP_CERTRESPONSE_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk),
ossl_check_OSSL_CMP_CERTRESPONSE_type(ptr))
#define sk_OSSL_CMP_CERTRESPONSE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk),
ossl_check_OSSL_CMP_CERTRESPONSE_type(ptr), pnum)
#define sk_OSSL_CMP_CERTRESPONSE_sort(sk)
OPENSSL_sk_sort(ossl_check_OSSL_CMP_CERTRESPONSE_sk_type(sk))
```

```
#define sk_OSSL_CMP_CERTRESPONSE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OSSL_CMP_CERTRESPONSE_sk_type(sk))
#define sk_OSSL_CMP_CERTRESPONSE_dup(sk) ((STACK_OF(OSSL_CMP_CERTRESPONSE)
*)OPENSSL_sk_dup(ossl_check_const_OSSL_CMP_CERTRESPONSE_sk_type(sk)))
#define sk_OSSL_CMP_CERTRESPONSE_deep_copy(sk,
 copyfunc, freefunc) ((STACK_OF(OSSL_CMP_CERTRESPONSE)
*)OPENSSL_sk_deep_copy(ossl_check_const_OSSL_CMP_CERTRESPONSE_sk_type(sk),
ossl_check_OSSL_CMP_CERTRESPONSE_copyfunc_type(copyfunc),
ossl_check_OSSL_CMP_CERTRESPONSE_freefunc_type(freefunc)))
#define sk_OSSL_CMP_CERTRESPONSE_set_cmp_func(sk, cmp)
((sk_OSSL_CMP_CERTRESPONSE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OSSL_CMP_CERTRE
SPONSE_sk_type(sk), ossl_check_OSSL_CMP_CERTRESPONSE_compfunc_type(cmp)))

typedef STACK_OF(ASN1_UTF8STRING) OSSL_CMP_PKIFREETEXT;

/*
* function DECLARATIONS
*/

/* from cmp_asn.c */
OSSL_CMP_ITAV *OSSL_CMP_ITAV_create(ASN1_OBJECT *type, ASN1_TYPE *value);
void OSSL_CMP_ITAV_set0(OSSL_CMP_ITAV *itav, ASN1_OBJECT *type,
                        ASN1_TYPE *value);
ASN1_OBJECT *OSSL_CMP_ITAV_get0_type(const OSSL_CMP_ITAV *itav);
ASN1_TYPE *OSSL_CMP_ITAV_get0_value(const OSSL_CMP_ITAV *itav);
int OSSL_CMP_ITAV_push0_stack_item(STACK_OF(OSSL_CMP_ITAV) **itav_sk_p,

                    OSSL_CMP_ITAV *itav);
void OSSL_CMP_ITAV_free(OSSL_CMP_ITAV *itav);
void OSSL_CMP_MSG_free(OSSL_CMP_MSG *msg);

/* from cmp_ctx.c */
OSSL_CMP_CTX *OSSL_CMP_CTX_new(OSSL_LIB_CTX *libctx, const char *propq);
void OSSL_CMP_CTX_free(OSSL_CMP_CTX *ctx);
int OSSL_CMP_CTX_reinit(OSSL_CMP_CTX *ctx);
/* CMP general options: */
#  define OSSL_CMP_OPT_LOG_VERBOSITY 0
/* CMP transfer options: */
#  define OSSL_CMP_OPT_KEEP_ALIVE 10
#  define OSSL_CMP_OPT_MSG_TIMEOUT 11
#  define OSSL_CMP_OPT_TOTAL_TIMEOUT 12
/* CMP request options: */
#  define OSSL_CMP_OPT_VALIDITY_DAYS 20
#  define OSSL_CMP_OPT_SUBJECTALTNAME_NODEFAULT 21
#  define OSSL_CMP_OPT_SUBJECTALTNAME_CRITICAL 22
#  define OSSL_CMP_OPT_POLICIES_CRITICAL 23
#  define OSSL_CMP_OPT_POPO_METHOD 24
#  define OSSL_CMP_OPT_IMPLICIT_CONFIRM 25
```

```
# define OSSL_CMP_OPT_DISABLE_CONFIRM 26
# define OSSL_CMP_OPT_REVOCATION_REASON 27
/* CMP protection options: */
# define OSSL_CMP_OPT_UNPROTECTED_SEND 30
# define OSSL_CMP_OPT_UNPROTECTED_ERRORS
 31
# define OSSL_CMP_OPT_OWF_ALGNID 32
# define OSSL_CMP_OPT_MAC_ALGNID 33
# define OSSL_CMP_OPT_DIGEST_ALGNID 34
# define OSSL_CMP_OPT_IGNORE_KEYUSAGE 35
# define OSSL_CMP_OPT_PERMIT_TA_IN_EXTRACERTS_FOR_IR 36
int OSSL_CMP_CTX_set_option(OSSL_CMP_CTX *ctx, int opt, int val);
int OSSL_CMP_CTX_get_option(const OSSL_CMP_CTX *ctx, int opt);
/* CMP-specific callback for logging and outputting the error queue: */
int OSSL_CMP_CTX_set_log_cb(OSSL_CMP_CTX *ctx, OSSL_CMP_log_cb_t cb);
# define OSSL_CMP_CTX_set_log_verbosity(ctx, level) \
   OSSL_CMP_CTX_set_option(ctx, OSSL_CMP_OPT_LOG_VERBOSITY, level)
void OSSL_CMP_CTX_print_errors(const OSSL_CMP_CTX *ctx);
/* message transfer: */
int OSSL_CMP_CTX_set1_serverPath(OSSL_CMP_CTX *ctx, const char *path);
int OSSL_CMP_CTX_set1_server(OSSL_CMP_CTX *ctx, const char *address);
int OSSL_CMP_CTX_set_serverPort(OSSL_CMP_CTX *ctx, int port);
int OSSL_CMP_CTX_set1_proxy(OSSL_CMP_CTX *ctx, const char *name);
int OSSL_CMP_CTX_set1_no_proxy(OSSL_CMP_CTX
 *ctx, const char *names);
int OSSL_CMP_CTX_set_http_cb(OSSL_CMP_CTX *ctx, OSSL_HTTP_bio_cb_t cb);
int OSSL_CMP_CTX_set_http_cb_arg(OSSL_CMP_CTX *ctx, void *arg);
void *OSSL_CMP_CTX_get_http_cb_arg(const OSSL_CMP_CTX *ctx);
typedef OSSL_CMP_MSG *(*OSSL_CMP_transfer_cb_t) (OSSL_CMP_CTX *ctx,
                                  const OSSL_CMP_MSG *req);
int OSSL_CMP_CTX_set_transfer_cb(OSSL_CMP_CTX *ctx, OSSL_CMP_transfer_cb_t cb);
int OSSL_CMP_CTX_set_transfer_cb_arg(OSSL_CMP_CTX *ctx, void *arg);
void *OSSL_CMP_CTX_get_transfer_cb_arg(const OSSL_CMP_CTX *ctx);
/* server authentication: */
int OSSL_CMP_CTX_set1_srvCert(OSSL_CMP_CTX *ctx, X509 *cert);
int OSSL_CMP_CTX_set1_expected_sender(OSSL_CMP_CTX *ctx, const X509_NAME *name);
int OSSL_CMP_CTX_set0_trustedStore(OSSL_CMP_CTX *ctx, X509_STORE *store);
X509_STORE *OSSL_CMP_CTX_get0_trustedStore(const OSSL_CMP_CTX *ctx);
int OSSL_CMP_CTX_set1_untrusted(OSSL_CMP_CTX *ctx, STACK_OF(X509) *certs);
STACK_OF(X509)
 *OSSL_CMP_CTX_get0_untrusted(const OSSL_CMP_CTX *ctx);
/* client authentication: */
int OSSL_CMP_CTX_set1_cert(OSSL_CMP_CTX *ctx, X509 *cert);
int OSSL_CMP_CTX_build_cert_chain(OSSL_CMP_CTX *ctx, X509_STORE *own_trusted,
                         STACK_OF(X509) *candidates);
int OSSL_CMP_CTX_set1_pkey(OSSL_CMP_CTX *ctx, EVP_PKEY *pkey);
int OSSL_CMP_CTX_set1_referenceValue(OSSL_CMP_CTX *ctx,
                           const unsigned char *ref, int len);
```

```
int OSSL_CMP_CTX_set1_secretValue(OSSL_CMP_CTX *ctx,
                          const unsigned char *sec, int len);
/* CMP message header and extra certificates: */
int OSSL_CMP_CTX_set1_recipient(OSSL_CMP_CTX *ctx, const X509_NAME *name);
int OSSL_CMP_CTX_push0_geninfo_ITAV(OSSL_CMP_CTX *ctx, OSSL_CMP_ITAV *itav);
int OSSL_CMP_CTX_reset_geninfo_ITAVs(OSSL_CMP_CTX *ctx);
int OSSL_CMP_CTX_set1_extraCertsOut(OSSL_CMP_CTX *ctx,
                           STACK_OF(X509) *extraCertsOut);
/* certificate template:
 */
int OSSL_CMP_CTX_set0_newPkey(OSSL_CMP_CTX *ctx, int priv, EVP_PKEY *pkey);
EVP_PKEY *OSSL_CMP_CTX_get0_newPkey(const OSSL_CMP_CTX *ctx, int priv);
int OSSL_CMP_CTX_set1_issuer(OSSL_CMP_CTX *ctx, const X509_NAME *name);
int OSSL_CMP_CTX_set1_subjectName(OSSL_CMP_CTX *ctx, const X509_NAME *name);
int OSSL_CMP_CTX_push1_subjectAltName(OSSL_CMP_CTX *ctx,
                            const GENERAL_NAME *name);
int OSSL_CMP_CTX_set0_reqExtensions(OSSL_CMP_CTX *ctx, X509_EXTENSIONS *exts);
int OSSL_CMP_CTX_reqExtensions_have_SAN(OSSL_CMP_CTX *ctx);
int OSSL_CMP_CTX_push0_policy(OSSL_CMP_CTX *ctx, POLICYINFO *pinfo);
int OSSL_CMP_CTX_set1_oldCert(OSSL_CMP_CTX *ctx, X509 *cert);
int OSSL_CMP_CTX_set1_p10CSR(OSSL_CMP_CTX *ctx, const X509_REQ *csr);
/* misc body contents: */
int OSSL_CMP_CTX_push0_genm_ITAV(OSSL_CMP_CTX *ctx, OSSL_CMP_ITAV *itav);
/* certificate confirmation: */
typedef int (*OSSL_CMP_certConf_cb_t) (OSSL_CMP_CTX *ctx, X509 *cert,

        int fail_info, const char **txt);
int OSSL_CMP_certConf_cb(OSSL_CMP_CTX *ctx, X509 *cert, int fail_info,
                  const char **text);
int OSSL_CMP_CTX_set_certConf_cb(OSSL_CMP_CTX *ctx, OSSL_CMP_certConf_cb_t cb);
int OSSL_CMP_CTX_set_certConf_cb_arg(OSSL_CMP_CTX *ctx, void *arg);
void *OSSL_CMP_CTX_get_certConf_cb_arg(const OSSL_CMP_CTX *ctx);
/* result fetching: */
int OSSL_CMP_CTX_get_status(const OSSL_CMP_CTX *ctx);
OSSL_CMP_PKIFREETEXT *OSSL_CMP_CTX_get0_statusString(const OSSL_CMP_CTX *ctx);
int OSSL_CMP_CTX_get_failInfoCode(const OSSL_CMP_CTX *ctx);
#  define OSSL_CMP_PKISI_BUFLEN 1024
X509 *OSSL_CMP_CTX_get0_newCert(const OSSL_CMP_CTX *ctx);
STACK_OF(X509) *OSSL_CMP_CTX_get1_newChain(const OSSL_CMP_CTX *ctx);
STACK_OF(X509) *OSSL_CMP_CTX_get1_caPubs(const OSSL_CMP_CTX *ctx);
STACK_OF(X509) *OSSL_CMP_CTX_get1_extraCertsIn(const OSSL_CMP_CTX *ctx);
int OSSL_CMP_CTX_set1_transactionID(OSSL_CMP_CTX *ctx,
                           const ASN1_OCTET_STRING
 *id);
int OSSL_CMP_CTX_set1_senderNonce(OSSL_CMP_CTX *ctx,
                          const ASN1_OCTET_STRING *nonce);

/* from cmp_status.c */
```

```
char *OSSL_CMP_CTX_snprint_PKIStatus(const OSSL_CMP_CTX *ctx, char *buf,
                                     size_t bufsize);
char *OSSL_CMP_snprint_PKIStatusInfo(const OSSL_CMP_PKISI *statusInfo,
                                     char *buf, size_t bufsize);
OSSL_CMP_PKISI *
OSSL_CMP_STATUSINFO_new(int status, int fail_info, const char *text);

/* from cmp_hdr.c */
ASN1_OCTET_STRING *OSSL_CMP_HDR_get0_transactionID(const
                                        OSSL_CMP_PKIHEADER *hdr);
ASN1_OCTET_STRING *OSSL_CMP_HDR_get0_recipNonce(const OSSL_CMP_PKIHEADER *hdr);

/* from cmp_msg.c */
OSSL_CMP_PKIHEADER *OSSL_CMP_MSG_get0_header(const OSSL_CMP_MSG *msg);
int OSSL_CMP_MSG_get_bodytype(const OSSL_CMP_MSG *msg);
int OSSL_CMP_MSG_update_transactionID(OSSL_CMP_CTX *ctx, OSSL_CMP_MSG *msg);
int OSSL_CMP_MSG_update_recipNonce(OSSL_CMP_CTX
 *ctx, OSSL_CMP_MSG *msg);
OSSL_CRMF_MSG *OSSL_CMP_CTX_setup_CRM(OSSL_CMP_CTX *ctx, int for_KUR, int rid);
OSSL_CMP_MSG *OSSL_CMP_MSG_read(const char *file, OSSL_LIB_CTX *libctx,
                                const char *propq);
int OSSL_CMP_MSG_write(const char *file, const OSSL_CMP_MSG *msg);
OSSL_CMP_MSG *d2i_OSSL_CMP_MSG_bio(BIO *bio, OSSL_CMP_MSG **msg);
int i2d_OSSL_CMP_MSG_bio(BIO *bio, const OSSL_CMP_MSG *msg);

/* from cmp_vfy.c */
int OSSL_CMP_validate_msg(OSSL_CMP_CTX *ctx, const OSSL_CMP_MSG *msg);
int OSSL_CMP_validate_cert_path(const OSSL_CMP_CTX *ctx,
                                X509_STORE *trusted_store, X509 *cert);

/* from cmp_http.c */
OSSL_CMP_MSG *OSSL_CMP_MSG_http_perform(OSSL_CMP_CTX *ctx,
                                        const OSSL_CMP_MSG *req);

/* from cmp_server.c */
typedef struct ossl_cmp_srv_ctx_st OSSL_CMP_SRV_CTX;
OSSL_CMP_MSG *OSSL_CMP_SRV_process_request(OSSL_CMP_SRV_CTX *srv_ctx,

    const OSSL_CMP_MSG *req);
OSSL_CMP_MSG * OSSL_CMP_CTX_server_perform(OSSL_CMP_CTX *client_ctx,
                                           const OSSL_CMP_MSG *req);
OSSL_CMP_SRV_CTX *OSSL_CMP_SRV_CTX_new(OSSL_LIB_CTX *libctx, const char *propq);
void OSSL_CMP_SRV_CTX_free(OSSL_CMP_SRV_CTX *srv_ctx);
typedef OSSL_CMP_PKISI *(*OSSL_CMP_SRV_cert_request_cb_t)
   (OSSL_CMP_SRV_CTX *srv_ctx, const OSSL_CMP_MSG *req, int certReqId,
    const OSSL_CRMF_MSG *crm, const X509_REQ *p10cr,
    X509 **certOut, STACK_OF(X509) **chainOut, STACK_OF(X509) **caPubs);
typedef OSSL_CMP_PKISI *(*OSSL_CMP_SRV_rr_cb_t)(OSSL_CMP_SRV_CTX *srv_ctx,
```

```
                                const OSSL_CMP_MSG *req,
                                const X509_NAME *issuer,
                                const ASN1_INTEGER *serial);
typedef int (*OSSL_CMP_SRV_genm_cb_t)(OSSL_CMP_SRV_CTX *srv_ctx,
                            const OSSL_CMP_MSG *req,

                    const STACK_OF(OSSL_CMP_ITAV) *in,
                            STACK_OF(OSSL_CMP_ITAV) **out);
typedef void (*OSSL_CMP_SRV_error_cb_t)(OSSL_CMP_SRV_CTX *srv_ctx,
                              const OSSL_CMP_MSG *req,
                              const OSSL_CMP_PKISI *statusInfo,
                              const ASN1_INTEGER *errorCode,
                              const OSSL_CMP_PKIFREETEXT *errDetails);
typedef int (*OSSL_CMP_SRV_certConf_cb_t)(OSSL_CMP_SRV_CTX *srv_ctx,
                               const OSSL_CMP_MSG *req,
                               int certReqId,
                               const ASN1_OCTET_STRING *certHash,
                               const OSSL_CMP_PKISI *si);
typedef int (*OSSL_CMP_SRV_pollReq_cb_t)(OSSL_CMP_SRV_CTX *srv_ctx,
                              const OSSL_CMP_MSG *req, int certReqId,

              OSSL_CMP_MSG **certReq,
                              int64_t *check_after);
int OSSL_CMP_SRV_CTX_init(OSSL_CMP_SRV_CTX *srv_ctx, void *custom_ctx,
                    OSSL_CMP_SRV_cert_request_cb_t process_cert_request,
                    OSSL_CMP_SRV_rr_cb_t process_rr,
                    OSSL_CMP_SRV_genm_cb_t process_genm,
                    OSSL_CMP_SRV_error_cb_t process_error,
                    OSSL_CMP_SRV_certConf_cb_t process_certConf,
                    OSSL_CMP_SRV_pollReq_cb_t process_pollReq);
OSSL_CMP_CTX *OSSL_CMP_SRV_CTX_get0_cmp_ctx(const OSSL_CMP_SRV_CTX *srv_ctx);
void *OSSL_CMP_SRV_CTX_get0_custom_ctx(const OSSL_CMP_SRV_CTX *srv_ctx);
int OSSL_CMP_SRV_CTX_set_send_unprotected_errors(OSSL_CMP_SRV_CTX *srv_ctx,
                                  int val);
int OSSL_CMP_SRV_CTX_set_accept_unprotected(OSSL_CMP_SRV_CTX *srv_ctx, int val);
int OSSL_CMP_SRV_CTX_set_accept_raverified(OSSL_CMP_SRV_CTX
 *srv_ctx, int val);
int OSSL_CMP_SRV_CTX_set_grant_implicit_confirm(OSSL_CMP_SRV_CTX *srv_ctx,
                                int val);

/* from cmp_client.c */
X509 *OSSL_CMP_exec_certreq(OSSL_CMP_CTX *ctx, int req_type,
                    const OSSL_CRMF_MSG *crm);
#  define OSSL_CMP_IR    0
#  define OSSL_CMP_CR    2
#  define OSSL_CMP_P10CR 4
#  define OSSL_CMP_KUR   7
#  define OSSL_CMP_exec_IR_ses(ctx) \
```

```
   OSSL_CMP_exec_certreq(ctx, OSSL_CMP_IR, NULL)
#  define OSSL_CMP_exec_CR_ses(ctx) \
   OSSL_CMP_exec_certreq(ctx, OSSL_CMP_CR, NULL)
#  define OSSL_CMP_exec_P10CR_ses(ctx) \
   OSSL_CMP_exec_certreq(ctx, OSSL_CMP_P10CR, NULL)
#  define OSSL_CMP_exec_KUR_ses(ctx) \
   OSSL_CMP_exec_certreq(ctx, OSSL_CMP_KUR, NULL)
int OSSL_CMP_try_certreq(OSSL_CMP_CTX *ctx, int req_type,
                    const OSSL_CRMF_MSG *crm, int *checkAfter);
int OSSL_CMP_exec_RR_ses(OSSL_CMP_CTX *ctx);
STACK_OF(OSSL_CMP_ITAV) *OSSL_CMP_exec_GENM_ses(OSSL_CMP_CTX
 *ctx);

#  ifdef  __cplusplus
}
#  endif
# endif /* !defined(OPENSSL_NO_CMP) */
#endif /* !defined(OPENSSL_CMP_H) */
```

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```
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/* Generated by Makefile from include/crypto/dso_conf.h.in */
/*
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*/

#ifndef OSSL_CRYPTO_DSO_CONF_H
# define OSSL_CRYPTO_DSO_CONF_H
# pragma once

# define DSO_DLFCN
# define HAVE_DLFCN_H
# define DSO_EXTENSION ".so"
#endif
```

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/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/x509_vfy.h.in
*
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*
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#ifndef OPENSSL_X509_VFY_H
define OPENSSL_X509_VFY_H
pragma once

include <openssl/macros.h>
ifndef OPENSSL_NO_DEPRECATED_3_0

```
#  define HEADER_X509_VFY_H
# endif

/*
* Protect against recursion, x509.h and x509_vfy.h each include the other.
*/
# ifndef OPENSSL_X509_H
#  include <openssl/x509.h>
# endif

# include <openssl/opensslconf.h>
# include <openssl/lhash.h>
# include <openssl/bio.h>
# include <openssl/crypto.h>
# include <openssl/symhacks.h>

#ifdef  __cplusplus
extern "C" {
#endif

/*-
SSL_CTX -> X509_STORE
            -> X509_LOOKUP

           ->X509_LOOKUP_METHOD
            -> X509_LOOKUP
                  ->X509_LOOKUP_METHOD

SSL     -> X509_STORE_CTX
            ->X509_STORE

The X509_STORE holds the tables etc for verification stuff.
A X509_STORE_CTX is used while validating a single certificate.
The X509_STORE has X509_LOOKUPs for looking up certs.
The X509_STORE then calls a function to actually verify the
certificate chain.
*/

typedef enum {
   X509_LU_NONE = 0,
   X509_LU_X509, X509_LU_CRL
} X509_LOOKUP_TYPE;

#ifndef OPENSSL_NO_DEPRECATED_1_1_0
#define X509_LU_RETRY   -1
#define X509_LU_FAIL    0
#endif
```

```
SKM_DEFINE_STACK_OF_INTERNAL(X509_LOOKUP, X509_LOOKUP, X509_LOOKUP)
#define sk_X509_LOOKUP_num(sk) OPENSSL_sk_num(ossl_check_const_X509_LOOKUP_sk_type(sk))
#define sk_X509_LOOKUP_value(sk, idx) ((X509_LOOKUP
*)OPENSSL_sk_value(ossl_check_const_X509_LOOKUP_sk_type(sk), (idx)))
#define sk_X509_LOOKUP_new(cmp) ((STACK_OF(X509_LOOKUP)
*)OPENSSL_sk_new(ossl_check_X509_LOOKUP_compfunc_type(cmp)))
#define
 sk_X509_LOOKUP_new_null() ((STACK_OF(X509_LOOKUP) *)OPENSSL_sk_new_null())
#define sk_X509_LOOKUP_new_reserve(cmp, n) ((STACK_OF(X509_LOOKUP)
*)OPENSSL_sk_new_reserve(ossl_check_X509_LOOKUP_compfunc_type(cmp), (n)))
#define sk_X509_LOOKUP_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_LOOKUP_sk_type(sk), (n))
#define sk_X509_LOOKUP_free(sk) OPENSSL_sk_free(ossl_check_X509_LOOKUP_sk_type(sk))
#define sk_X509_LOOKUP_zero(sk) OPENSSL_sk_zero(ossl_check_X509_LOOKUP_sk_type(sk))
#define sk_X509_LOOKUP_delete(sk, i) ((X509_LOOKUP
*)OPENSSL_sk_delete(ossl_check_X509_LOOKUP_sk_type(sk), (i)))
#define sk_X509_LOOKUP_delete_ptr(sk, ptr) ((X509_LOOKUP
*)OPENSSL_sk_delete_ptr(ossl_check_X509_LOOKUP_sk_type(sk), ossl_check_X509_LOOKUP_type(ptr)))
#define sk_X509_LOOKUP_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_LOOKUP_sk_type(sk),
ossl_check_X509_LOOKUP_type(ptr))
#define sk_X509_LOOKUP_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_LOOKUP_sk_type(sk),
ossl_check_X509_LOOKUP_type(ptr))
#define
 sk_X509_LOOKUP_pop(sk) ((X509_LOOKUP *)OPENSSL_sk_pop(ossl_check_X509_LOOKUP_sk_type(sk)))
#define sk_X509_LOOKUP_shift(sk) ((X509_LOOKUP
*)OPENSSL_sk_shift(ossl_check_X509_LOOKUP_sk_type(sk)))
#define sk_X509_LOOKUP_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_LOOKUP_sk_type(sk),ossl_check_X509_LOOKUP_freefunc_type(free
func))
#define sk_X509_LOOKUP_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_LOOKUP_sk_type(sk),
ossl_check_X509_LOOKUP_type(ptr), (idx))
#define sk_X509_LOOKUP_set(sk, idx, ptr) ((X509_LOOKUP
*)OPENSSL_sk_set(ossl_check_X509_LOOKUP_sk_type(sk), (idx), ossl_check_X509_LOOKUP_type(ptr)))
#define sk_X509_LOOKUP_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_LOOKUP_sk_type(sk),
ossl_check_X509_LOOKUP_type(ptr))
#define sk_X509_LOOKUP_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_LOOKUP_sk_type(sk),
ossl_check_X509_LOOKUP_type(ptr))
#define sk_X509_LOOKUP_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509_LOOKUP_sk_type(sk),
 ossl_check_X509_LOOKUP_type(ptr), pnum)
#define sk_X509_LOOKUP_sort(sk) OPENSSL_sk_sort(ossl_check_X509_LOOKUP_sk_type(sk))
#define sk_X509_LOOKUP_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_X509_LOOKUP_sk_type(sk))
#define sk_X509_LOOKUP_dup(sk) ((STACK_OF(X509_LOOKUP)
*)OPENSSL_sk_dup(ossl_check_const_X509_LOOKUP_sk_type(sk)))
#define sk_X509_LOOKUP_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_LOOKUP)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_LOOKUP_sk_type(sk),
ossl_check_X509_LOOKUP_copyfunc_type(copyfunc), ossl_check_X509_LOOKUP_freefunc_type(freefunc)))
#define sk_X509_LOOKUP_set_cmp_func(sk, cmp)
```

```
((sk_X509_LOOKUP_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_LOOKUP_sk_type(sk),
ossl_check_X509_LOOKUP_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(X509_OBJECT, X509_OBJECT, X509_OBJECT)
#define sk_X509_OBJECT_num(sk) OPENSSL_sk_num(ossl_check_const_X509_OBJECT_sk_type(sk))
#define sk_X509_OBJECT_value(sk, idx) ((X509_OBJECT
*)OPENSSL_sk_value(ossl_check_const_X509_OBJECT_sk_type(sk),
 (idx)))
#define sk_X509_OBJECT_new(cmp) ((STACK_OF(X509_OBJECT)
*)OPENSSL_sk_new(ossl_check_X509_OBJECT_compfunc_type(cmp)))
#define sk_X509_OBJECT_new_null() ((STACK_OF(X509_OBJECT) *)OPENSSL_sk_new_null())
#define sk_X509_OBJECT_new_reserve(cmp, n) ((STACK_OF(X509_OBJECT)
*)OPENSSL_sk_new_reserve(ossl_check_X509_OBJECT_compfunc_type(cmp), (n)))
#define sk_X509_OBJECT_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_OBJECT_sk_type(sk), (n))
#define sk_X509_OBJECT_free(sk) OPENSSL_sk_free(ossl_check_X509_OBJECT_sk_type(sk))
#define sk_X509_OBJECT_zero(sk) OPENSSL_sk_zero(ossl_check_X509_OBJECT_sk_type(sk))
#define sk_X509_OBJECT_delete(sk, i) ((X509_OBJECT
*)OPENSSL_sk_delete(ossl_check_X509_OBJECT_sk_type(sk), (i)))
#define sk_X509_OBJECT_delete_ptr(sk, ptr) ((X509_OBJECT
*)OPENSSL_sk_delete_ptr(ossl_check_X509_OBJECT_sk_type(sk), ossl_check_X509_OBJECT_type(ptr)))
#define sk_X509_OBJECT_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_OBJECT_sk_type(sk),
 ossl_check_X509_OBJECT_type(ptr))
#define sk_X509_OBJECT_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_OBJECT_sk_type(sk),
ossl_check_X509_OBJECT_type(ptr))
#define sk_X509_OBJECT_pop(sk) ((X509_OBJECT
*)OPENSSL_sk_pop(ossl_check_X509_OBJECT_sk_type(sk)))
#define sk_X509_OBJECT_shift(sk) ((X509_OBJECT
*)OPENSSL_sk_shift(ossl_check_X509_OBJECT_sk_type(sk)))
#define sk_X509_OBJECT_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_OBJECT_sk_type(sk),ossl_check_X509_OBJECT_freefunc_type(freef
unc))
#define sk_X509_OBJECT_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_OBJECT_sk_type(sk),
ossl_check_X509_OBJECT_type(ptr), (idx))
#define sk_X509_OBJECT_set(sk, idx, ptr) ((X509_OBJECT
*)OPENSSL_sk_set(ossl_check_X509_OBJECT_sk_type(sk), (idx), ossl_check_X509_OBJECT_type(ptr)))
#define sk_X509_OBJECT_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_OBJECT_sk_type(sk),
ossl_check_X509_OBJECT_type(ptr))
#define sk_X509_OBJECT_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_OBJECT_sk_type(sk),
 ossl_check_X509_OBJECT_type(ptr))
#define sk_X509_OBJECT_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509_OBJECT_sk_type(sk), ossl_check_X509_OBJECT_type(ptr), pnum)
#define sk_X509_OBJECT_sort(sk) OPENSSL_sk_sort(ossl_check_X509_OBJECT_sk_type(sk))
#define sk_X509_OBJECT_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_X509_OBJECT_sk_type(sk))
#define sk_X509_OBJECT_dup(sk) ((STACK_OF(X509_OBJECT)
*)OPENSSL_sk_dup(ossl_check_const_X509_OBJECT_sk_type(sk)))
#define sk_X509_OBJECT_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_OBJECT)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_OBJECT_sk_type(sk),
ossl_check_X509_OBJECT_copyfunc_type(copyfunc), ossl_check_X509_OBJECT_freefunc_type(freefunc)))
#define sk_X509_OBJECT_set_cmp_func(sk, cmp)
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```
((sk_X509_OBJECT_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_OBJECT_sk_type(sk),
ossl_check_X509_OBJECT_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(X509_VERIFY_PARAM, X509_VERIFY_PARAM,
X509_VERIFY_PARAM)
#define
 sk_X509_VERIFY_PARAM_num(sk)
OPENSSL_sk_num(ossl_check_const_X509_VERIFY_PARAM_sk_type(sk))
#define sk_X509_VERIFY_PARAM_value(sk, idx) ((X509_VERIFY_PARAM
*)OPENSSL_sk_value(ossl_check_const_X509_VERIFY_PARAM_sk_type(sk), (idx)))
#define sk_X509_VERIFY_PARAM_new(cmp) ((STACK_OF(X509_VERIFY_PARAM)
*)OPENSSL_sk_new(ossl_check_X509_VERIFY_PARAM_compfunc_type(cmp)))
#define sk_X509_VERIFY_PARAM_new_null() ((STACK_OF(X509_VERIFY_PARAM)
*)OPENSSL_sk_new_null())
#define sk_X509_VERIFY_PARAM_new_reserve(cmp, n) ((STACK_OF(X509_VERIFY_PARAM)
*)OPENSSL_sk_new_reserve(ossl_check_X509_VERIFY_PARAM_compfunc_type(cmp), (n)))
#define sk_X509_VERIFY_PARAM_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_X509_VERIFY_PARAM_sk_type(sk), (n))
#define sk_X509_VERIFY_PARAM_free(sk)
OPENSSL_sk_free(ossl_check_X509_VERIFY_PARAM_sk_type(sk))
#define sk_X509_VERIFY_PARAM_zero(sk)
OPENSSL_sk_zero(ossl_check_X509_VERIFY_PARAM_sk_type(sk))
#define sk_X509_VERIFY_PARAM_delete(sk, i) ((X509_VERIFY_PARAM
*)OPENSSL_sk_delete(ossl_check_X509_VERIFY_PARAM_sk_type(sk),
 (i)))
#define sk_X509_VERIFY_PARAM_delete_ptr(sk, ptr) ((X509_VERIFY_PARAM
*)OPENSSL_sk_delete_ptr(ossl_check_X509_VERIFY_PARAM_sk_type(sk),
ossl_check_X509_VERIFY_PARAM_type(ptr)))
#define sk_X509_VERIFY_PARAM_push(sk, ptr)
OPENSSL_sk_push(ossl_check_X509_VERIFY_PARAM_sk_type(sk),
ossl_check_X509_VERIFY_PARAM_type(ptr))
#define sk_X509_VERIFY_PARAM_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_X509_VERIFY_PARAM_sk_type(sk),
ossl_check_X509_VERIFY_PARAM_type(ptr))
#define sk_X509_VERIFY_PARAM_pop(sk) ((X509_VERIFY_PARAM
*)OPENSSL_sk_pop(ossl_check_X509_VERIFY_PARAM_sk_type(sk)))
#define sk_X509_VERIFY_PARAM_shift(sk) ((X509_VERIFY_PARAM
*)OPENSSL_sk_shift(ossl_check_X509_VERIFY_PARAM_sk_type(sk)))
#define sk_X509_VERIFY_PARAM_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_VERIFY_PARAM_sk_type(sk),ossl_check_X509_VERIFY_PARAM_
freefunc_type(freefunc))
#define sk_X509_VERIFY_PARAM_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_X509_VERIFY_PARAM_sk_type(sk),
 ossl_check_X509_VERIFY_PARAM_type(ptr), (idx))
#define sk_X509_VERIFY_PARAM_set(sk, idx, ptr) ((X509_VERIFY_PARAM
*)OPENSSL_sk_set(ossl_check_X509_VERIFY_PARAM_sk_type(sk), (idx),
ossl_check_X509_VERIFY_PARAM_type(ptr)))
#define sk_X509_VERIFY_PARAM_find(sk, ptr)
OPENSSL_sk_find(ossl_check_X509_VERIFY_PARAM_sk_type(sk),
```

```
ossl_check_X509_VERIFY_PARAM_type(ptr))
#define sk_X509_VERIFY_PARAM_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_X509_VERIFY_PARAM_sk_type(sk),
ossl_check_X509_VERIFY_PARAM_type(ptr))
#define sk_X509_VERIFY_PARAM_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509_VERIFY_PARAM_sk_type(sk),
ossl_check_X509_VERIFY_PARAM_type(ptr), pnum)
#define sk_X509_VERIFY_PARAM_sort(sk)
OPENSSL_sk_sort(ossl_check_X509_VERIFY_PARAM_sk_type(sk))
#define sk_X509_VERIFY_PARAM_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_X509_VERIFY_PARAM_sk_type(sk))
#define sk_X509_VERIFY_PARAM_dup(sk) ((STACK_OF(X509_VERIFY_PARAM)
*)OPENSSL_sk_dup(ossl_check_const_X509_VERIFY_PARAM_sk_type(sk)))
#define
 sk_X509_VERIFY_PARAM_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_VERIFY_PARAM)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_VERIFY_PARAM_sk_type(sk),
ossl_check_X509_VERIFY_PARAM_copyfunc_type(copyfunc),
ossl_check_X509_VERIFY_PARAM_freefunc_type(freefunc)))
#define sk_X509_VERIFY_PARAM_set_cmp_func(sk, cmp)
((sk_X509_VERIFY_PARAM_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_VERIFY_PARAM_sk_
type(sk), ossl_check_X509_VERIFY_PARAM_compfunc_type(cmp)))


/* This is used for a table of trust checking functions */
typedef struct x509_trust_st {
  int trust;
  int flags;
  int (*check_trust) (struct x509_trust_st *, X509 *, int);
  char *name;
  int arg1;
  void *arg2;
} X509_TRUST;
SKM_DEFINE_STACK_OF_INTERNAL(X509_TRUST, X509_TRUST, X509_TRUST)
#define sk_X509_TRUST_num(sk) OPENSSL_sk_num(ossl_check_const_X509_TRUST_sk_type(sk))
#define sk_X509_TRUST_value(sk, idx) ((X509_TRUST
*)OPENSSL_sk_value(ossl_check_const_X509_TRUST_sk_type(sk),
 (idx)))
#define sk_X509_TRUST_new(cmp) ((STACK_OF(X509_TRUST)
*)OPENSSL_sk_new(ossl_check_X509_TRUST_compfunc_type(cmp)))
#define sk_X509_TRUST_new_null() ((STACK_OF(X509_TRUST) *)OPENSSL_sk_new_null())
#define sk_X509_TRUST_new_reserve(cmp, n) ((STACK_OF(X509_TRUST)
*)OPENSSL_sk_new_reserve(ossl_check_X509_TRUST_compfunc_type(cmp), (n)))
#define sk_X509_TRUST_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_TRUST_sk_type(sk), (n))
#define sk_X509_TRUST_free(sk) OPENSSL_sk_free(ossl_check_X509_TRUST_sk_type(sk))
#define sk_X509_TRUST_zero(sk) OPENSSL_sk_zero(ossl_check_X509_TRUST_sk_type(sk))
#define sk_X509_TRUST_delete(sk, i) ((X509_TRUST
*)OPENSSL_sk_delete(ossl_check_X509_TRUST_sk_type(sk), (i)))
#define sk_X509_TRUST_delete_ptr(sk, ptr) ((X509_TRUST
```

```
*)OPENSSL_sk_delete_ptr(ossl_check_X509_TRUST_sk_type(sk), ossl_check_X509_TRUST_type(ptr)))
#define sk_X509_TRUST_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_TRUST_sk_type(sk),
ossl_check_X509_TRUST_type(ptr))
#define
 sk_X509_TRUST_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_TRUST_sk_type(sk),
ossl_check_X509_TRUST_type(ptr))
#define sk_X509_TRUST_pop(sk) ((X509_TRUST *)OPENSSL_sk_pop(ossl_check_X509_TRUST_sk_type(sk)))
#define sk_X509_TRUST_shift(sk) ((X509_TRUST
*)OPENSSL_sk_shift(ossl_check_X509_TRUST_sk_type(sk)))
#define sk_X509_TRUST_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_TRUST_sk_type(sk),ossl_check_X509_TRUST_freefunc_type(freefunc
))
#define sk_X509_TRUST_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_TRUST_sk_type(sk),
ossl_check_X509_TRUST_type(ptr), (idx))
#define sk_X509_TRUST_set(sk, idx, ptr) ((X509_TRUST
*)OPENSSL_sk_set(ossl_check_X509_TRUST_sk_type(sk), (idx), ossl_check_X509_TRUST_type(ptr)))
#define sk_X509_TRUST_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_TRUST_sk_type(sk),
ossl_check_X509_TRUST_type(ptr))
#define sk_X509_TRUST_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_TRUST_sk_type(sk),
ossl_check_X509_TRUST_type(ptr))
#define
 sk_X509_TRUST_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_X509_TRUST_sk_type(sk),
ossl_check_X509_TRUST_type(ptr), pnum)
#define sk_X509_TRUST_sort(sk) OPENSSL_sk_sort(ossl_check_X509_TRUST_sk_type(sk))
#define sk_X509_TRUST_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_X509_TRUST_sk_type(sk))
#define sk_X509_TRUST_dup(sk) ((STACK_OF(X509_TRUST)
*)OPENSSL_sk_dup(ossl_check_const_X509_TRUST_sk_type(sk)))
#define sk_X509_TRUST_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_TRUST)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_TRUST_sk_type(sk),
ossl_check_X509_TRUST_copyfunc_type(copyfunc), ossl_check_X509_TRUST_freefunc_type(freefunc)))
#define sk_X509_TRUST_set_cmp_func(sk, cmp)
((sk_X509_TRUST_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_TRUST_sk_type(sk),
ossl_check_X509_TRUST_compfunc_type(cmp)))


/* standard trust ids */
# define X509_TRUST_DEFAULT      0 /* Only valid in purpose settings */
# define X509_TRUST_COMPAT       1
# define X509_TRUST_SSL_CLIENT
   2
# define X509_TRUST_SSL_SERVER   3
# define X509_TRUST_EMAIL        4
# define X509_TRUST_OBJECT_SIGN  5
# define X509_TRUST_OCSP_SIGN    6
# define X509_TRUST_OCSP_REQUEST 7
# define X509_TRUST_TSA          8
/* Keep these up to date! */
# define X509_TRUST_MIN          1
```

```
# define X509_TRUST_MAX         8

/* trust_flags values */
# define X509_TRUST_DYNAMIC      (1U << 0)
# define X509_TRUST_DYNAMIC_NAME (1U << 1)
/* No compat trust if self-signed, preempts "DO_SS" */
# define X509_TRUST_NO_SS_COMPAT (1U << 2)
/* Compat trust if no explicit accepted trust EKUs */
# define X509_TRUST_DO_SS_COMPAT (1U << 3)
/* Accept "anyEKU" as a wildcard rejection OID and as a wildcard trust OID */
# define X509_TRUST_OK_ANY_EKU   (1U << 4)

/* check_trust return codes */
# define X509_TRUST_TRUSTED      1
# define X509_TRUST_REJECTED     2
# define X509_TRUST_UNTRUSTED    3

int X509_TRUST_set(int *t, int trust);
int X509_TRUST_get_count(void);
X509_TRUST *X509_TRUST_get0(int idx);
int
 X509_TRUST_get_by_id(int id);
int X509_TRUST_add(int id, int flags, int (*ck) (X509_TRUST *, X509 *, int),
                   const char *name, int arg1, void *arg2);
void X509_TRUST_cleanup(void);
int X509_TRUST_get_flags(const X509_TRUST *xp);
char *X509_TRUST_get0_name(const X509_TRUST *xp);
int X509_TRUST_get_trust(const X509_TRUST *xp);

int X509_trusted(const X509 *x);
int X509_add1_trust_object(X509 *x, const ASN1_OBJECT *obj);
int X509_add1_reject_object(X509 *x, const ASN1_OBJECT *obj);
void X509_trust_clear(X509 *x);
void X509_reject_clear(X509 *x);
STACK_OF(ASN1_OBJECT) *X509_get0_trust_objects(X509 *x);
STACK_OF(ASN1_OBJECT) *X509_get0_reject_objects(X509 *x);

int (*X509_TRUST_set_default(int (*trust) (int, X509 *, int))) (int, X509 *,
                                                                int);
int X509_check_trust(X509 *x, int id, int flags);

int X509_verify_cert(X509_STORE_CTX *ctx);
int X509_STORE_CTX_verify(X509_STORE_CTX *ctx);
STACK_OF(X509) *X509_build_chain(X509
 *target, STACK_OF(X509) *certs,
                            X509_STORE *store, int with_self_signed,
                            OSSL_LIB_CTX *libctx, const char *propq);
```

```
int X509_STORE_set_depth(X509_STORE *store, int depth);

typedef int (*X509_STORE_CTX_verify_cb)(int, X509_STORE_CTX *);
int X509_STORE_CTX_print_verify_cb(int ok, X509_STORE_CTX *ctx);
typedef int (*X509_STORE_CTX_verify_fn)(X509_STORE_CTX *);
typedef int (*X509_STORE_CTX_get_issuer_fn)(X509 **issuer,
                                    X509_STORE_CTX *ctx, X509 *x);
typedef int (*X509_STORE_CTX_check_issued_fn)(X509_STORE_CTX *ctx,
                                     X509 *x, X509 *issuer);
typedef int (*X509_STORE_CTX_check_revocation_fn)(X509_STORE_CTX *ctx);
typedef int (*X509_STORE_CTX_get_crl_fn)(X509_STORE_CTX *ctx,
                                   X509_CRL **crl, X509 *x);
typedef int (*X509_STORE_CTX_check_crl_fn)(X509_STORE_CTX *ctx, X509_CRL *crl);
typedef
 int (*X509_STORE_CTX_cert_crl_fn)(X509_STORE_CTX *ctx,
                                   X509_CRL *crl, X509 *x);
typedef int (*X509_STORE_CTX_check_policy_fn)(X509_STORE_CTX *ctx);
typedef STACK_OF(X509)
   *(*X509_STORE_CTX_lookup_certs_fn)(X509_STORE_CTX *ctx,
                                  const X509_NAME *nm);
typedef STACK_OF(X509_CRL)
   *(*X509_STORE_CTX_lookup_crls_fn)(const X509_STORE_CTX *ctx,
                                 const X509_NAME *nm);
typedef int (*X509_STORE_CTX_cleanup_fn)(X509_STORE_CTX *ctx);

void X509_STORE_CTX_set_depth(X509_STORE_CTX *ctx, int depth);

# define X509_STORE_CTX_set_app_data(ctx,data) \
       X509_STORE_CTX_set_ex_data(ctx,0,data)
# define X509_STORE_CTX_get_app_data(ctx) \
       X509_STORE_CTX_get_ex_data(ctx,0)

# define X509_L_FILE_LOAD        1
# define X509_L_ADD_DIR          2
# define X509_L_ADD_STORE        3
# define X509_L_LOAD_STORE       4

# define X509_LOOKUP_load_file(x,name,type) \

  X509_LOOKUP_ctrl((x),X509_L_FILE_LOAD,(name),(long)(type),NULL)

# define X509_LOOKUP_add_dir(x,name,type) \
             X509_LOOKUP_ctrl((x),X509_L_ADD_DIR,(name),(long)(type),NULL)

# define X509_LOOKUP_add_store(x,name) \
             X509_LOOKUP_ctrl((x),X509_L_ADD_STORE,(name),0,NULL)

# define X509_LOOKUP_load_store(x,name) \
```

```
        X509_LOOKUP_ctrl((x),X509_L_LOAD_STORE,(name),0,NULL)

# define X509_LOOKUP_load_file_ex(x, name, type, libctx, propq)       \
X509_LOOKUP_ctrl_ex((x), X509_L_FILE_LOAD, (name), (long)(type), NULL,\
            (libctx), (propq))

# define X509_LOOKUP_load_store_ex(x, name, libctx, propq)           \
X509_LOOKUP_ctrl_ex((x), X509_L_LOAD_STORE, (name), 0, NULL,         \
            (libctx), (propq))

# define X509_LOOKUP_add_store_ex(x, name, libctx, propq)            \
X509_LOOKUP_ctrl_ex((x), X509_L_ADD_STORE, (name), 0, NULL,          \
            (libctx), (propq))

# define X509_V_OK                                       0
# define X509_V_ERR_UNSPECIFIED                          1
# define X509_V_ERR_UNABLE_TO_GET_ISSUER_CERT            2
# define X509_V_ERR_UNABLE_TO_GET_CRL                    3
# define X509_V_ERR_UNABLE_TO_DECRYPT_CERT_SIGNATURE     4
# define X509_V_ERR_UNABLE_TO_DECRYPT_CRL_SIGNATURE      5
# define X509_V_ERR_UNABLE_TO_DECODE_ISSUER_PUBLIC_KEY   6
# define X509_V_ERR_CERT_SIGNATURE_FAILURE               7
# define X509_V_ERR_CRL_SIGNATURE_FAILURE                8
# define X509_V_ERR_CERT_NOT_YET_VALID                   9
# define X509_V_ERR_CERT_HAS_EXPIRED                     10
# define X509_V_ERR_CRL_NOT_YET_VALID                    11
# define X509_V_ERR_CRL_HAS_EXPIRED                      12
# define X509_V_ERR_ERROR_IN_CERT_NOT_BEFORE_FIELD       13
# define X509_V_ERR_ERROR_IN_CERT_NOT_AFTER_FIELD        14
# define X509_V_ERR_ERROR_IN_CRL_LAST_UPDATE_FIELD       15
# define X509_V_ERR_ERROR_IN_CRL_NEXT_UPDATE_FIELD       16
# define X509_V_ERR_OUT_OF_MEM                           17
# define X509_V_ERR_DEPTH_ZERO_SELF_SIGNED_CERT          18
# define X509_V_ERR_SELF_SIGNED_CERT_IN_CHAIN            19
# define X509_V_ERR_UNABLE_TO_GET_ISSUER_CERT_LOCALLY    20
# define X509_V_ERR_UNABLE_TO_VERIFY_LEAF_SIGNATURE      21
# define X509_V_ERR_CERT_CHAIN_TOO_LONG                  22
# define X509_V_ERR_CERT_REVOKED                         23
# define X509_V_ERR_NO_ISSUER_PUBLIC_KEY                 24
# define X509_V_ERR_PATH_LENGTH_EXCEEDED                 25
# define X509_V_ERR_INVALID_PURPOSE                      26
# define X509_V_ERR_CERT_UNTRUSTED                       27
# define X509_V_ERR_CERT_REJECTED                        28

/* These are 'informational' when looking for issuer cert */
# define X509_V_ERR_SUBJECT_ISSUER_MISMATCH              29
```

```
# define X509_V_ERR_AKID_SKID_MISMATCH                30
# define X509_V_ERR_AKID_ISSUER_SERIAL_MISMATCH        31
# define X509_V_ERR_KEYUSAGE_NO_CERTSIGN               32
# define
 X509_V_ERR_UNABLE_TO_GET_CRL_ISSUER           33
# define X509_V_ERR_UNHANDLED_CRITICAL_EXTENSION        34
# define X509_V_ERR_KEYUSAGE_NO_CRL_SIGN               35
# define X509_V_ERR_UNHANDLED_CRITICAL_CRL_EXTENSION    36
# define X509_V_ERR_INVALID_NON_CA                     37
# define X509_V_ERR_PROXY_PATH_LENGTH_EXCEEDED         38
# define X509_V_ERR_KEYUSAGE_NO_DIGITAL_SIGNATURE       39
# define X509_V_ERR_PROXY_CERTIFICATES_NOT_ALLOWED      40
# define X509_V_ERR_INVALID_EXTENSION                  41
# define X509_V_ERR_INVALID_POLICY_EXTENSION           42
# define X509_V_ERR_NO_EXPLICIT_POLICY                 43
# define X509_V_ERR_DIFFERENT_CRL_SCOPE                44
# define X509_V_ERR_UNSUPPORTED_EXTENSION_FEATURE       45
# define X509_V_ERR_UNNESTED_RESOURCE                  46
# define X509_V_ERR_PERMITTED_VIOLATION                47
# define X509_V_ERR_EXCLUDED_VIOLATION                 48
# define X509_V_ERR_SUBTREE_MINMAX
            49
/* The application is not happy */
# define X509_V_ERR_APPLICATION_VERIFICATION           50
# define X509_V_ERR_UNSUPPORTED_CONSTRAINT_TYPE        51
# define X509_V_ERR_UNSUPPORTED_CONSTRAINT_SYNTAX       52
# define X509_V_ERR_UNSUPPORTED_NAME_SYNTAX            53
# define X509_V_ERR_CRL_PATH_VALIDATION_ERROR          54
/* Another issuer check debug option */
# define X509_V_ERR_PATH_LOOP                          55
/* Suite B mode algorithm violation */
# define X509_V_ERR_SUITE_B_INVALID_VERSION            56
# define X509_V_ERR_SUITE_B_INVALID_ALGORITHM          57
# define X509_V_ERR_SUITE_B_INVALID_CURVE              58
# define X509_V_ERR_SUITE_B_INVALID_SIGNATURE_ALGORITHM  59
# define X509_V_ERR_SUITE_B_LOS_NOT_ALLOWED            60
# define X509_V_ERR_SUITE_B_CANNOT_SIGN_P_384_WITH_P_256 61
/* Host, email and IP check errors */
# define X509_V_ERR_HOSTNAME_MISMATCH                  62
# define X509_V_ERR_EMAIL_MISMATCH
      63
# define X509_V_ERR_IP_ADDRESS_MISMATCH                64
/* DANE TLSA errors */
# define X509_V_ERR_DANE_NO_MATCH                      65
/* security level errors */
# define X509_V_ERR_EE_KEY_TOO_SMALL                   66
# define X509_V_ERR_CA_KEY_TOO_SMALL                   67
# define X509_V_ERR_CA_MD_TOO_WEAK                     68
```

```
/* Caller error */
# define X509_V_ERR_INVALID_CALL                    69
/* Issuer lookup error */
# define X509_V_ERR_STORE_LOOKUP                    70
/* Certificate transparency */
# define X509_V_ERR_NO_VALID_SCTS                   71

# define X509_V_ERR_PROXY_SUBJECT_NAME_VIOLATION        72
/* OCSP status errors */
# define X509_V_ERR_OCSP_VERIFY_NEEDED                  73  /* Need OCSP verification */
# define X509_V_ERR_OCSP_VERIFY_FAILED                  74  /* Couldn't verify cert through OCSP */
# define X509_V_ERR_OCSP_CERT_UNKNOWN                   75  /* Certificate wasn't recognized by the OCSP
responder
 */

# define X509_V_ERR_UNSUPPORTED_SIGNATURE_ALGORITHM      76
# define X509_V_ERR_SIGNATURE_ALGORITHM_MISMATCH         77

/* Errors in case a check in X509_V_FLAG_X509_STRICT mode fails */
# define X509_V_ERR_SIGNATURE_ALGORITHM_INCONSISTENCY    78
# define X509_V_ERR_INVALID_CA                           79
# define X509_V_ERR_PATHLEN_INVALID_FOR_NON_CA           80
# define X509_V_ERR_PATHLEN_WITHOUT_KU_KEY_CERT_SIGN     81
# define X509_V_ERR_KU_KEY_CERT_SIGN_INVALID_FOR_NON_CA  82
# define X509_V_ERR_ISSUER_NAME_EMPTY                    83
# define X509_V_ERR_SUBJECT_NAME_EMPTY                   84
# define X509_V_ERR_MISSING_AUTHORITY_KEY_IDENTIFIER     85
# define X509_V_ERR_MISSING_SUBJECT_KEY_IDENTIFIER       86
# define X509_V_ERR_EMPTY_SUBJECT_ALT_NAME               87
# define X509_V_ERR_EMPTY_SUBJECT_SAN_NOT_CRITICAL       88
# define X509_V_ERR_CA_BCONS_NOT_CRITICAL                89
# define X509_V_ERR_AUTHORITY_KEY_IDENTIFIER_CRITICAL    90
# define X509_V_ERR_SUBJECT_KEY_IDENTIFIER_CRITICAL
     91
# define X509_V_ERR_CA_CERT_MISSING_KEY_USAGE            92
# define X509_V_ERR_EXTENSIONS_REQUIRE_VERSION_3         93
# define X509_V_ERR_EC_KEY_EXPLICIT_PARAMS               94

/* Certificate verify flags */
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define X509_V_FLAG_CB_ISSUER_CHECK            0x0   /* Deprecated */
# endif
/* Use check time instead of current time */
# define X509_V_FLAG_USE_CHECK_TIME              0x2
/* Lookup CRLs */
# define X509_V_FLAG_CRL_CHECK                   0x4
/* Lookup CRLs for whole chain */
# define X509_V_FLAG_CRL_CHECK_ALL               0x8
```

```
/* Ignore unhandled critical extensions */
# define X509_V_FLAG_IGNORE_CRITICAL            0x10
/* Disable workarounds for broken certificates */
# define X509_V_FLAG_X509_STRICT                0x20
/* Enable proxy certificate validation */
# define X509_V_FLAG_ALLOW_PROXY_CERTS          0x40
/* Enable policy checking */
# define X509_V_FLAG_POLICY_CHECK
   0x80
/* Policy variable require-explicit-policy */
# define X509_V_FLAG_EXPLICIT_POLICY            0x100
/* Policy variable inhibit-any-policy */
# define X509_V_FLAG_INHIBIT_ANY                0x200
/* Policy variable inhibit-policy-mapping */
# define X509_V_FLAG_INHIBIT_MAP                0x400
/* Notify callback that policy is OK */
# define X509_V_FLAG_NOTIFY_POLICY              0x800
/* Extended CRL features such as indirect CRLs, alternate CRL signing keys */
# define X509_V_FLAG_EXTENDED_CRL_SUPPORT       0x1000
/* Delta CRL support */
# define X509_V_FLAG_USE_DELTAS                 0x2000
/* Check self-signed CA signature */
# define X509_V_FLAG_CHECK_SS_SIGNATURE         0x4000
/* Use trusted store first */
# define X509_V_FLAG_TRUSTED_FIRST              0x8000
/* Suite B 128 bit only mode: not normally used */
# define X509_V_FLAG_SUITEB_128_LOS_ONLY        0x10000
/* Suite B 192 bit only mode */
# define X509_V_FLAG_SUITEB_192_LOS             0x20000
/* Suite B
 128 bit mode allowing 192 bit algorithms */
# define X509_V_FLAG_SUITEB_128_LOS             0x30000
/* Allow partial chains if at least one certificate is in trusted store */
# define X509_V_FLAG_PARTIAL_CHAIN              0x80000
/*
* If the initial chain is not trusted, do not attempt to build an alternative
* chain. Alternate chain checking was introduced in 1.1.0. Setting this flag
* will force the behaviour to match that of previous versions.
*/
# define X509_V_FLAG_NO_ALT_CHAINS              0x100000
/* Do not check certificate/CRL validity against current time */
# define X509_V_FLAG_NO_CHECK_TIME              0x200000

# define X509_VP_FLAG_DEFAULT                   0x1
# define X509_VP_FLAG_OVERWRITE                 0x2
# define X509_VP_FLAG_RESET_FLAGS               0x4
# define X509_VP_FLAG_LOCKED                    0x8
# define X509_VP_FLAG_ONCE                      0x10
```

```
/* Internal use: mask of policy related options */
# define X509_V_FLAG_POLICY_MASK (X509_V_FLAG_POLICY_CHECK
 \
                        | X509_V_FLAG_EXPLICIT_POLICY \
                        | X509_V_FLAG_INHIBIT_ANY \
                        | X509_V_FLAG_INHIBIT_MAP)

int X509_OBJECT_idx_by_subject(STACK_OF(X509_OBJECT) *h, X509_LOOKUP_TYPE type,
                       const X509_NAME *name);
X509_OBJECT *X509_OBJECT_retrieve_by_subject(STACK_OF(X509_OBJECT) *h,
                                 X509_LOOKUP_TYPE type,
                                 const X509_NAME *name);
X509_OBJECT *X509_OBJECT_retrieve_match(STACK_OF(X509_OBJECT) *h,
                               X509_OBJECT *x);
int X509_OBJECT_up_ref_count(X509_OBJECT *a);
X509_OBJECT *X509_OBJECT_new(void);
void X509_OBJECT_free(X509_OBJECT *a);
X509_LOOKUP_TYPE X509_OBJECT_get_type(const X509_OBJECT *a);
X509 *X509_OBJECT_get0_X509(const X509_OBJECT *a);
int X509_OBJECT_set1_X509(X509_OBJECT *a, X509 *obj);
X509_CRL *X509_OBJECT_get0_X509_CRL(const
 X509_OBJECT *a);
int X509_OBJECT_set1_X509_CRL(X509_OBJECT *a, X509_CRL *obj);
X509_STORE *X509_STORE_new(void);
void X509_STORE_free(X509_STORE *v);
int X509_STORE_lock(X509_STORE *ctx);
int X509_STORE_unlock(X509_STORE *ctx);
int X509_STORE_up_ref(X509_STORE *v);
STACK_OF(X509_OBJECT) *X509_STORE_get0_objects(const X509_STORE *v);
STACK_OF(X509) *X509_STORE_get1_all_certs(X509_STORE *st);
STACK_OF(X509) *X509_STORE_CTX_get1_certs(X509_STORE_CTX *st,
                              const X509_NAME *nm);
STACK_OF(X509_CRL) *X509_STORE_CTX_get1_crls(const X509_STORE_CTX *st,
                                 const X509_NAME *nm);
int X509_STORE_set_flags(X509_STORE *ctx, unsigned long flags);
int X509_STORE_set_purpose(X509_STORE *ctx, int purpose);
int X509_STORE_set_trust(X509_STORE *ctx, int trust);
int X509_STORE_set1_param(X509_STORE *ctx, const X509_VERIFY_PARAM *pm);
X509_VERIFY_PARAM *X509_STORE_get0_param(const X509_STORE *ctx);

void X509_STORE_set_verify(X509_STORE
 *ctx, X509_STORE_CTX_verify_fn verify);
#define X509_STORE_set_verify_func(ctx, func) \
        X509_STORE_set_verify((ctx),(func))
void X509_STORE_CTX_set_verify(X509_STORE_CTX *ctx,
                       X509_STORE_CTX_verify_fn verify);
X509_STORE_CTX_verify_fn X509_STORE_get_verify(const X509_STORE *ctx);
```

```
void X509_STORE_set_verify_cb(X509_STORE *ctx,
                              X509_STORE_CTX_verify_cb verify_cb);
# define X509_STORE_set_verify_cb_func(ctx,func) \
        X509_STORE_set_verify_cb((ctx),(func))
X509_STORE_CTX_verify_cb X509_STORE_get_verify_cb(const X509_STORE *ctx);
void X509_STORE_set_get_issuer(X509_STORE *ctx,
                               X509_STORE_CTX_get_issuer_fn get_issuer);
X509_STORE_CTX_get_issuer_fn X509_STORE_get_get_issuer(const X509_STORE *ctx);
void X509_STORE_set_check_issued(X509_STORE *ctx,
                                 X509_STORE_CTX_check_issued_fn check_issued);
X509_STORE_CTX_check_issued_fn X509_STORE_get_check_issued(const
 X509_STORE *ctx);
void X509_STORE_set_check_revocation(X509_STORE *ctx,
                                     X509_STORE_CTX_check_revocation_fn check_revocation);
X509_STORE_CTX_check_revocation_fn
  X509_STORE_get_check_revocation(const X509_STORE *ctx);
void X509_STORE_set_get_crl(X509_STORE *ctx,
                            X509_STORE_CTX_get_crl_fn get_crl);
X509_STORE_CTX_get_crl_fn X509_STORE_get_get_crl(const X509_STORE *ctx);
void X509_STORE_set_check_crl(X509_STORE *ctx,
                              X509_STORE_CTX_check_crl_fn check_crl);
X509_STORE_CTX_check_crl_fn X509_STORE_get_check_crl(const X509_STORE *ctx);
void X509_STORE_set_cert_crl(X509_STORE *ctx,
                             X509_STORE_CTX_cert_crl_fn cert_crl);
X509_STORE_CTX_cert_crl_fn X509_STORE_get_cert_crl(const X509_STORE *ctx);
void X509_STORE_set_check_policy(X509_STORE *ctx,
                                 X509_STORE_CTX_check_policy_fn check_policy);
X509_STORE_CTX_check_policy_fn
 X509_STORE_get_check_policy(const X509_STORE *ctx);
void X509_STORE_set_lookup_certs(X509_STORE *ctx,
                                 X509_STORE_CTX_lookup_certs_fn lookup_certs);
X509_STORE_CTX_lookup_certs_fn X509_STORE_get_lookup_certs(const X509_STORE *ctx);
void X509_STORE_set_lookup_crls(X509_STORE *ctx,
                                X509_STORE_CTX_lookup_crls_fn lookup_crls);
#define X509_STORE_set_lookup_crls_cb(ctx, func) \
  X509_STORE_set_lookup_crls((ctx), (func))
X509_STORE_CTX_lookup_crls_fn X509_STORE_get_lookup_crls(const X509_STORE *ctx);
void X509_STORE_set_cleanup(X509_STORE *ctx,
                            X509_STORE_CTX_cleanup_fn cleanup);
X509_STORE_CTX_cleanup_fn X509_STORE_get_cleanup(const X509_STORE *ctx);

#define X509_STORE_get_ex_new_index(l, p, newf, dupf, freef) \
  CRYPTO_get_ex_new_index(CRYPTO_EX_INDEX_X509_STORE, l, p, newf, dupf, freef)
int X509_STORE_set_ex_data(X509_STORE *ctx, int idx, void *data);
void *X509_STORE_get_ex_data(const X509_STORE
 *ctx, int idx);

X509_STORE_CTX *X509_STORE_CTX_new_ex(OSSL_LIB_CTX *libctx, const char *propq);
```

```
X509_STORE_CTX *X509_STORE_CTX_new(void);

int X509_STORE_CTX_get1_issuer(X509 **issuer, X509_STORE_CTX *ctx, X509 *x);

void X509_STORE_CTX_free(X509_STORE_CTX *ctx);
int X509_STORE_CTX_init(X509_STORE_CTX *ctx, X509_STORE *trust_store,
                X509 *target, STACK_OF(X509) *untrusted);
void X509_STORE_CTX_set0_trusted_stack(X509_STORE_CTX *ctx, STACK_OF(X509) *sk);
void X509_STORE_CTX_cleanup(X509_STORE_CTX *ctx);

X509_STORE *X509_STORE_CTX_get0_store(const X509_STORE_CTX *ctx);
X509 *X509_STORE_CTX_get0_cert(const X509_STORE_CTX *ctx);
STACK_OF(X509)* X509_STORE_CTX_get0_untrusted(const X509_STORE_CTX *ctx);
void X509_STORE_CTX_set0_untrusted(X509_STORE_CTX *ctx, STACK_OF(X509) *sk);
void X509_STORE_CTX_set_verify_cb(X509_STORE_CTX *ctx,
                        X509_STORE_CTX_verify_cb verify);
X509_STORE_CTX_verify_cb X509_STORE_CTX_get_verify_cb(const
 X509_STORE_CTX *ctx);
X509_STORE_CTX_verify_fn X509_STORE_CTX_get_verify(const X509_STORE_CTX *ctx);
X509_STORE_CTX_get_issuer_fn X509_STORE_CTX_get_get_issuer(const X509_STORE_CTX *ctx);
X509_STORE_CTX_check_issued_fn X509_STORE_CTX_get_check_issued(const X509_STORE_CTX *ctx);
X509_STORE_CTX_check_revocation_fn X509_STORE_CTX_get_check_revocation(const X509_STORE_CTX
*ctx);
X509_STORE_CTX_get_crl_fn X509_STORE_CTX_get_get_crl(const X509_STORE_CTX *ctx);
X509_STORE_CTX_check_crl_fn X509_STORE_CTX_get_check_crl(const X509_STORE_CTX *ctx);
X509_STORE_CTX_cert_crl_fn X509_STORE_CTX_get_cert_crl(const X509_STORE_CTX *ctx);
X509_STORE_CTX_check_policy_fn X509_STORE_CTX_get_check_policy(const X509_STORE_CTX *ctx);
X509_STORE_CTX_lookup_certs_fn X509_STORE_CTX_get_lookup_certs(const X509_STORE_CTX *ctx);
X509_STORE_CTX_lookup_crls_fn X509_STORE_CTX_get_lookup_crls(const X509_STORE_CTX *ctx);
X509_STORE_CTX_cleanup_fn X509_STORE_CTX_get_cleanup(const X509_STORE_CTX *ctx);

#ifndef OPENSSL_NO_DEPRECATED_1_1_0
#
 define X509_STORE_CTX_get_chain X509_STORE_CTX_get0_chain
# define X509_STORE_CTX_set_chain X509_STORE_CTX_set0_untrusted
# define X509_STORE_CTX_trusted_stack X509_STORE_CTX_set0_trusted_stack
# define X509_STORE_get_by_subject X509_STORE_CTX_get_by_subject
# define X509_STORE_get1_certs X509_STORE_CTX_get1_certs
# define X509_STORE_get1_crls X509_STORE_CTX_get1_crls
/* the following macro is misspelled; use X509_STORE_get1_certs instead */
# define X509_STORE_get1_cert X509_STORE_CTX_get1_certs
/* the following macro is misspelled; use X509_STORE_get1_crls instead */
# define X509_STORE_get1_crl X509_STORE_CTX_get1_crls
#endif

X509_LOOKUP *X509_STORE_add_lookup(X509_STORE *v, X509_LOOKUP_METHOD *m);
X509_LOOKUP_METHOD *X509_LOOKUP_hash_dir(void);
X509_LOOKUP_METHOD *X509_LOOKUP_file(void);
```

```
X509_LOOKUP_METHOD *X509_LOOKUP_store(void);

typedef int (*X509_LOOKUP_ctrl_fn)(X509_LOOKUP *ctx, int cmd, const char *argc,
                                   long argl, char **ret);
typedef
 int (*X509_LOOKUP_ctrl_ex_fn)(
   X509_LOOKUP *ctx, int cmd, const char *argc, long argl, char **ret,
   OSSL_LIB_CTX *libctx, const char *propq);

typedef int (*X509_LOOKUP_get_by_subject_fn)(X509_LOOKUP *ctx,
                                             X509_LOOKUP_TYPE type,
                                             const X509_NAME *name,
                                             X509_OBJECT *ret);
typedef int (*X509_LOOKUP_get_by_subject_ex_fn)(X509_LOOKUP *ctx,
                                                X509_LOOKUP_TYPE type,
                                                const X509_NAME *name,
                                                X509_OBJECT *ret,
                                                OSSL_LIB_CTX *libctx,
                                                const char *propq);
typedef int (*X509_LOOKUP_get_by_issuer_serial_fn)(X509_LOOKUP *ctx,

     X509_LOOKUP_TYPE type,
                                                  const X509_NAME *name,
                                                  const ASN1_INTEGER *serial,
                                                  X509_OBJECT *ret);
typedef int (*X509_LOOKUP_get_by_fingerprint_fn)(X509_LOOKUP *ctx,
                                                 X509_LOOKUP_TYPE type,
                                                 const unsigned char* bytes,
                                                 int len,
                                                 X509_OBJECT *ret);
typedef int (*X509_LOOKUP_get_by_alias_fn)(X509_LOOKUP *ctx,
                                           X509_LOOKUP_TYPE type,
                                           const char *str,
                                           int len,
                                           X509_OBJECT *ret);

X509_LOOKUP_METHOD *X509_LOOKUP_meth_new(const char *name);
void X509_LOOKUP_meth_free(X509_LOOKUP_METHOD
 *method);

int X509_LOOKUP_meth_set_new_item(X509_LOOKUP_METHOD *method,
                                  int (*new_item) (X509_LOOKUP *ctx));
int (*X509_LOOKUP_meth_get_new_item(const X509_LOOKUP_METHOD* method))
   (X509_LOOKUP *ctx);

int X509_LOOKUP_meth_set_free(X509_LOOKUP_METHOD *method,
                              void (*free_fn) (X509_LOOKUP *ctx));
void (*X509_LOOKUP_meth_get_free(const X509_LOOKUP_METHOD* method))
```

```
  (X509_LOOKUP *ctx);

int X509_LOOKUP_meth_set_init(X509_LOOKUP_METHOD *method,
                      int (*init) (X509_LOOKUP *ctx));
int (*X509_LOOKUP_meth_get_init(const X509_LOOKUP_METHOD* method))
  (X509_LOOKUP *ctx);

int X509_LOOKUP_meth_set_shutdown(X509_LOOKUP_METHOD *method,
                        int (*shutdown) (X509_LOOKUP *ctx));
int (*X509_LOOKUP_meth_get_shutdown(const X509_LOOKUP_METHOD* method))
  (X509_LOOKUP *ctx);

int X509_LOOKUP_meth_set_ctrl(X509_LOOKUP_METHOD *method,
                      X509_LOOKUP_ctrl_fn
 ctrl_fn);
X509_LOOKUP_ctrl_fn X509_LOOKUP_meth_get_ctrl(const X509_LOOKUP_METHOD *method);

int X509_LOOKUP_meth_set_get_by_subject(X509_LOOKUP_METHOD *method,
                              X509_LOOKUP_get_by_subject_fn fn);
X509_LOOKUP_get_by_subject_fn X509_LOOKUP_meth_get_get_by_subject(
  const X509_LOOKUP_METHOD *method);

int X509_LOOKUP_meth_set_get_by_issuer_serial(X509_LOOKUP_METHOD *method,
  X509_LOOKUP_get_by_issuer_serial_fn fn);
X509_LOOKUP_get_by_issuer_serial_fn X509_LOOKUP_meth_get_get_by_issuer_serial(
  const X509_LOOKUP_METHOD *method);

int X509_LOOKUP_meth_set_get_by_fingerprint(X509_LOOKUP_METHOD *method,
  X509_LOOKUP_get_by_fingerprint_fn fn);
X509_LOOKUP_get_by_fingerprint_fn X509_LOOKUP_meth_get_get_by_fingerprint(
  const X509_LOOKUP_METHOD *method);

int X509_LOOKUP_meth_set_get_by_alias(X509_LOOKUP_METHOD *method,
                              X509_LOOKUP_get_by_alias_fn fn);
X509_LOOKUP_get_by_alias_fn X509_LOOKUP_meth_get_get_by_alias(
   const X509_LOOKUP_METHOD *method);


int X509_STORE_add_cert(X509_STORE *ctx, X509 *x);
int X509_STORE_add_crl(X509_STORE *ctx, X509_CRL *x);

int X509_STORE_CTX_get_by_subject(const X509_STORE_CTX *vs,
                        X509_LOOKUP_TYPE type,
                        const X509_NAME *name, X509_OBJECT *ret);
X509_OBJECT *X509_STORE_CTX_get_obj_by_subject(X509_STORE_CTX *vs,
                                  X509_LOOKUP_TYPE type,
                                  const X509_NAME *name);
```

```
int X509_LOOKUP_ctrl(X509_LOOKUP *ctx, int cmd, const char *argc,
                     long argl, char **ret);
int X509_LOOKUP_ctrl_ex(X509_LOOKUP *ctx, int cmd, const char *argc, long argl,
                        char **ret, OSSL_LIB_CTX *libctx, const char *propq);

int X509_load_cert_file(X509_LOOKUP *ctx, const char *file, int type);
int X509_load_cert_file_ex(X509_LOOKUP *ctx, const char *file, int type,

         OSSL_LIB_CTX *libctx, const char *propq);
int X509_load_crl_file(X509_LOOKUP *ctx, const char *file, int type);
int X509_load_cert_crl_file(X509_LOOKUP *ctx, const char *file, int type);
int X509_load_cert_crl_file_ex(X509_LOOKUP *ctx, const char *file, int type,
                               OSSL_LIB_CTX *libctx, const char *propq);

X509_LOOKUP *X509_LOOKUP_new(X509_LOOKUP_METHOD *method);
void X509_LOOKUP_free(X509_LOOKUP *ctx);
int X509_LOOKUP_init(X509_LOOKUP *ctx);
int X509_LOOKUP_by_subject(X509_LOOKUP *ctx, X509_LOOKUP_TYPE type,
                           const X509_NAME *name, X509_OBJECT *ret);
int X509_LOOKUP_by_subject_ex(X509_LOOKUP *ctx, X509_LOOKUP_TYPE type,
                              const X509_NAME *name, X509_OBJECT *ret,
                              OSSL_LIB_CTX *libctx, const char *propq);
int X509_LOOKUP_by_issuer_serial(X509_LOOKUP *ctx, X509_LOOKUP_TYPE type,
                                 const X509_NAME *name,

 const ASN1_INTEGER *serial,
                                 X509_OBJECT *ret);
int X509_LOOKUP_by_fingerprint(X509_LOOKUP *ctx, X509_LOOKUP_TYPE type,
                               const unsigned char *bytes, int len,
                               X509_OBJECT *ret);
int X509_LOOKUP_by_alias(X509_LOOKUP *ctx, X509_LOOKUP_TYPE type,
                         const char *str, int len, X509_OBJECT *ret);
int X509_LOOKUP_set_method_data(X509_LOOKUP *ctx, void *data);
void *X509_LOOKUP_get_method_data(const X509_LOOKUP *ctx);
X509_STORE *X509_LOOKUP_get_store(const X509_LOOKUP *ctx);
int X509_LOOKUP_shutdown(X509_LOOKUP *ctx);

int X509_STORE_load_file(X509_STORE *ctx, const char *file);
int X509_STORE_load_path(X509_STORE *ctx, const char *path);
int X509_STORE_load_store(X509_STORE *ctx, const char *store);
int X509_STORE_load_locations(X509_STORE *ctx,
                              const char *file,
                              const char *dir);
int X509_STORE_set_default_paths(X509_STORE
 *ctx);

int X509_STORE_load_file_ex(X509_STORE *ctx, const char *file,
                            OSSL_LIB_CTX *libctx, const char *propq);
```

```
int X509_STORE_load_store_ex(X509_STORE *ctx, const char *store,
                             OSSL_LIB_CTX *libctx, const char *propq);
int X509_STORE_load_locations_ex(X509_STORE *ctx, const char *file,
                                 const char *dir, OSSL_LIB_CTX *libctx,
                                 const char *propq);
int X509_STORE_set_default_paths_ex(X509_STORE *ctx, OSSL_LIB_CTX *libctx,
                                    const char *propq);

#define X509_STORE_CTX_get_ex_new_index(l, p, newf, dupf, freef) \
  CRYPTO_get_ex_new_index(CRYPTO_EX_INDEX_X509_STORE_CTX, l, p, newf, dupf, freef)
int X509_STORE_CTX_set_ex_data(X509_STORE_CTX *ctx, int idx, void *data);
void *X509_STORE_CTX_get_ex_data(const X509_STORE_CTX *ctx, int idx);
int X509_STORE_CTX_get_error(const X509_STORE_CTX *ctx);
void X509_STORE_CTX_set_error(X509_STORE_CTX
 *ctx, int s);
int X509_STORE_CTX_get_error_depth(const X509_STORE_CTX *ctx);
void X509_STORE_CTX_set_error_depth(X509_STORE_CTX *ctx, int depth);
X509 *X509_STORE_CTX_get_current_cert(const X509_STORE_CTX *ctx);
void X509_STORE_CTX_set_current_cert(X509_STORE_CTX *ctx, X509 *x);
X509 *X509_STORE_CTX_get0_current_issuer(const X509_STORE_CTX *ctx);
X509_CRL *X509_STORE_CTX_get0_current_crl(const X509_STORE_CTX *ctx);
X509_STORE_CTX *X509_STORE_CTX_get0_parent_ctx(const X509_STORE_CTX *ctx);
STACK_OF(X509) *X509_STORE_CTX_get0_chain(const X509_STORE_CTX *ctx);
STACK_OF(X509) *X509_STORE_CTX_get1_chain(const X509_STORE_CTX *ctx);
void X509_STORE_CTX_set_cert(X509_STORE_CTX *ctx, X509 *target);
void X509_STORE_CTX_set0_verified_chain(X509_STORE_CTX *c, STACK_OF(X509) *sk);
void X509_STORE_CTX_set0_crls(X509_STORE_CTX *ctx, STACK_OF(X509_CRL) *sk);
int X509_STORE_CTX_set_purpose(X509_STORE_CTX *ctx, int purpose);
int X509_STORE_CTX_set_trust(X509_STORE_CTX
 *ctx, int trust);
int X509_STORE_CTX_purpose_inherit(X509_STORE_CTX *ctx, int def_purpose,
                                   int purpose, int trust);
void X509_STORE_CTX_set_flags(X509_STORE_CTX *ctx, unsigned long flags);
void X509_STORE_CTX_set_time(X509_STORE_CTX *ctx, unsigned long flags,
                             time_t t);

X509_POLICY_TREE *X509_STORE_CTX_get0_policy_tree(const X509_STORE_CTX *ctx);
int X509_STORE_CTX_get_explicit_policy(const X509_STORE_CTX *ctx);
int X509_STORE_CTX_get_num_untrusted(const X509_STORE_CTX *ctx);

X509_VERIFY_PARAM *X509_STORE_CTX_get0_param(const X509_STORE_CTX *ctx);
void X509_STORE_CTX_set0_param(X509_STORE_CTX *ctx, X509_VERIFY_PARAM *param);
int X509_STORE_CTX_set_default(X509_STORE_CTX *ctx, const char *name);

/*
* Bridge opacity barrier between libcrypt and libssl, also needed to support
* offline testing in test/danetest.c
*/
```

```
void X509_STORE_CTX_set0_dane(X509_STORE_CTX *ctx, SSL_DANE *dane);
#define DANE_FLAG_NO_DANE_EE_NAMECHECKS
 (1L << 0)

/* X509_VERIFY_PARAM functions */

X509_VERIFY_PARAM *X509_VERIFY_PARAM_new(void);
void X509_VERIFY_PARAM_free(X509_VERIFY_PARAM *param);
int X509_VERIFY_PARAM_inherit(X509_VERIFY_PARAM *to,
                      const X509_VERIFY_PARAM *from);
int X509_VERIFY_PARAM_set1(X509_VERIFY_PARAM *to,
                    const X509_VERIFY_PARAM *from);
int X509_VERIFY_PARAM_set1_name(X509_VERIFY_PARAM *param, const char *name);
int X509_VERIFY_PARAM_set_flags(X509_VERIFY_PARAM *param,
                       unsigned long flags);
int X509_VERIFY_PARAM_clear_flags(X509_VERIFY_PARAM *param,
                         unsigned long flags);
unsigned long X509_VERIFY_PARAM_get_flags(const X509_VERIFY_PARAM *param);
int X509_VERIFY_PARAM_set_purpose(X509_VERIFY_PARAM *param, int purpose);
int X509_VERIFY_PARAM_set_trust(X509_VERIFY_PARAM *param, int trust);
void X509_VERIFY_PARAM_set_depth(X509_VERIFY_PARAM *param, int depth);
void X509_VERIFY_PARAM_set_auth_level(X509_VERIFY_PARAM
 *param, int auth_level);
time_t X509_VERIFY_PARAM_get_time(const X509_VERIFY_PARAM *param);
void X509_VERIFY_PARAM_set_time(X509_VERIFY_PARAM *param, time_t t);
int X509_VERIFY_PARAM_add0_policy(X509_VERIFY_PARAM *param,
                         ASN1_OBJECT *policy);
int X509_VERIFY_PARAM_set1_policies(X509_VERIFY_PARAM *param,
                          STACK_OF(ASN1_OBJECT) *policies);

int X509_VERIFY_PARAM_set_inh_flags(X509_VERIFY_PARAM *param,
                          uint32_t flags);
uint32_t X509_VERIFY_PARAM_get_inh_flags(const X509_VERIFY_PARAM *param);

char *X509_VERIFY_PARAM_get0_host(X509_VERIFY_PARAM *param, int idx);
int X509_VERIFY_PARAM_set1_host(X509_VERIFY_PARAM *param,
                       const char *name, size_t namelen);
int X509_VERIFY_PARAM_add1_host(X509_VERIFY_PARAM *param,
                       const char *name, size_t namelen);
void X509_VERIFY_PARAM_set_hostflags(X509_VERIFY_PARAM
 *param,
                          unsigned int flags);
unsigned int X509_VERIFY_PARAM_get_hostflags(const X509_VERIFY_PARAM *param);
char *X509_VERIFY_PARAM_get0_peername(const X509_VERIFY_PARAM *param);
void X509_VERIFY_PARAM_move_peername(X509_VERIFY_PARAM *, X509_VERIFY_PARAM *);
char *X509_VERIFY_PARAM_get0_email(X509_VERIFY_PARAM *param);
int X509_VERIFY_PARAM_set1_email(X509_VERIFY_PARAM *param,
                        const char *email, size_t emaillen);
```

```
char *X509_VERIFY_PARAM_get1_ip_asc(X509_VERIFY_PARAM *param);
int X509_VERIFY_PARAM_set1_ip(X509_VERIFY_PARAM *param,
                              const unsigned char *ip, size_t iplen);
int X509_VERIFY_PARAM_set1_ip_asc(X509_VERIFY_PARAM *param,
                                  const char *ipasc);

int X509_VERIFY_PARAM_get_depth(const X509_VERIFY_PARAM *param);
int X509_VERIFY_PARAM_get_auth_level(const X509_VERIFY_PARAM *param);
const char *X509_VERIFY_PARAM_get0_name(const X509_VERIFY_PARAM *param);

int
 X509_VERIFY_PARAM_add0_table(X509_VERIFY_PARAM *param);
int X509_VERIFY_PARAM_get_count(void);
const X509_VERIFY_PARAM *X509_VERIFY_PARAM_get0(int id);
const X509_VERIFY_PARAM *X509_VERIFY_PARAM_lookup(const char *name);
void X509_VERIFY_PARAM_table_cleanup(void);

/* Non positive return values are errors */
#define X509_PCY_TREE_FAILURE  -2 /* Failure to satisfy explicit policy */
#define X509_PCY_TREE_INVALID  -1 /* Inconsistent or invalid extensions */
#define X509_PCY_TREE_INTERNAL  0 /* Internal error, most likely malloc */

/*
* Positive return values form a bit mask, all but the first are internal to
* the library and don't appear in results from X509_policy_check().
*/
#define X509_PCY_TREE_VALID     1 /* The policy tree is valid */
#define X509_PCY_TREE_EMPTY     2 /* The policy tree is empty */
#define X509_PCY_TREE_EXPLICIT  4 /* Explicit policy required */

int X509_policy_check(X509_POLICY_TREE **ptree, int *pexplicit_policy,
                      STACK_OF(X509)
 *certs,
                      STACK_OF(ASN1_OBJECT) *policy_oids, unsigned int flags);

void X509_policy_tree_free(X509_POLICY_TREE *tree);

int X509_policy_tree_level_count(const X509_POLICY_TREE *tree);
X509_POLICY_LEVEL *X509_policy_tree_get0_level(const X509_POLICY_TREE *tree,
                                               int i);

STACK_OF(X509_POLICY_NODE)
   *X509_policy_tree_get0_policies(const X509_POLICY_TREE *tree);

STACK_OF(X509_POLICY_NODE)
   *X509_policy_tree_get0_user_policies(const X509_POLICY_TREE *tree);

int X509_policy_level_node_count(X509_POLICY_LEVEL *level);
```

```
X509_POLICY_NODE *X509_policy_level_get0_node(const X509_POLICY_LEVEL *level,
                                              int i);

const ASN1_OBJECT *X509_policy_node_get0_policy(const X509_POLICY_NODE *node);

STACK_OF(POLICYQUALINFO)
   *X509_policy_node_get0_qualifiers(const X509_POLICY_NODE *node);
const X509_POLICY_NODE
   *X509_policy_node_get0_parent(const X509_POLICY_NODE *node);

#ifdef  __cplusplus
}
#endif
#endif
```

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```
import './required-module.mjs';
```

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SOFTWARE.

```
/*
* WARNING: do not edit!
* Generated by configdata.pm from Configurations/common0.tmpl, Configurations/unix-Makefile.tmpl
* via Makefile.in
*
* Copyright 2016-2021 The OpenSSL Project Authors. All Rights Reserved.
*
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#ifndef OPENSSL_CONFIGURATION_H
# define OPENSSL_CONFIGURATION_H
# pragma once

# ifdef  __cplusplus
extern "C" {
# endif
```

```
# ifdef OPENSSL_ALGORITHM_DEFINES
#  error OPENSSL_ALGORITHM_DEFINES no longer supported
# endif

/*
* OpenSSL was configured with the following options:
*/

# define OPENSSL_CONFIGURED_API 30000
# ifndef OPENSSL_RAND_SEED_OS
#  define OPENSSL_RAND_SEED_OS
# endif
# ifndef OPENSSL_THREADS
#  define OPENSSL_THREADS
# endif
# ifndef OPENSSL_NO_AFALGENG
#  define OPENSSL_NO_AFALGENG
# endif
# ifndef
 OPENSSL_NO_ASAN
#  define OPENSSL_NO_ASAN
# endif
# ifndef OPENSSL_NO_COMP
#  define OPENSSL_NO_COMP
# endif
# ifndef OPENSSL_NO_CRYPTO_MDEBUG
#  define OPENSSL_NO_CRYPTO_MDEBUG
# endif
# ifndef OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
#  define OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
# endif
# ifndef OPENSSL_NO_EC_NISTP_64_GCC_128
#  define OPENSSL_NO_EC_NISTP_64_GCC_128
# endif
# ifndef OPENSSL_NO_EGD
#  define OPENSSL_NO_EGD
# endif
# ifndef OPENSSL_NO_EXTERNAL_TESTS
#  define OPENSSL_NO_EXTERNAL_TESTS
# endif
# ifndef OPENSSL_NO_FUZZ_AFL
#  define OPENSSL_NO_FUZZ_AFL
# endif
# ifndef OPENSSL_NO_FUZZ_LIBFUZZER
#  define OPENSSL_NO_FUZZ_LIBFUZZER
# endif
# ifndef OPENSSL_NO_KTLS
```

```
#  define OPENSSL_NO_KTLS
# endif
# ifndef OPENSSL_NO_LOADERENG
#  define OPENSSL_NO_LOADERENG
# endif
# ifndef OPENSSL_NO_MD2
#  define OPENSSL_NO_MD2
# endif
# ifndef OPENSSL_NO_MSAN
#  define OPENSSL_NO_MSAN
# endif
# ifndef OPENSSL_NO_RC5
#  define OPENSSL_NO_RC5
# endif
# ifndef OPENSSL_NO_SCTP
#  define OPENSSL_NO_SCTP
#
 endif
# ifndef OPENSSL_NO_SSL3
#  define OPENSSL_NO_SSL3
# endif
# ifndef OPENSSL_NO_SSL3_METHOD
#  define OPENSSL_NO_SSL3_METHOD
# endif
# ifndef OPENSSL_NO_TRACE
#  define OPENSSL_NO_TRACE
# endif
# ifndef OPENSSL_NO_UBSAN
#  define OPENSSL_NO_UBSAN
# endif
# ifndef OPENSSL_NO_UNIT_TEST
#  define OPENSSL_NO_UNIT_TEST
# endif
# ifndef OPENSSL_NO_UPLINK
#  define OPENSSL_NO_UPLINK
# endif
# ifndef OPENSSL_NO_WEAK_SSL_CIPHERS
#  define OPENSSL_NO_WEAK_SSL_CIPHERS
# endif
# ifndef OPENSSL_NO_DYNAMIC_ENGINE
#  define OPENSSL_NO_DYNAMIC_ENGINE
# endif


/* Generate 80386 code? */
# undef I386_ONLY

/*
```

```
* The following are cipher-specific, but are part of the public API.
*/
# if !defined(OPENSSL_SYS_UEFI)
#  define BN_LLONG
/* Only one for the following should be defined */
#  undef SIXTY_FOUR_BIT_LONG
#  undef SIXTY_FOUR_BIT
#  define THIRTY_TWO_BIT
# endif

# define RC4_INT unsigned int

# ifdef  __cplusplus
}
# endif

#endif                          /* OPENSSL_CONFIGURATION_H
 */
```

Tests included here are based on build output generated by the six-speed
benchmark suite.

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```
/*
* WARNING: do not edit!
* Generated by Makefile from providers/common/include/prov/der_dsa.h.in
*
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*
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```

```
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#include "internal/der.h"

/* Well known OIDs precompiled */

/*
* id-dsa OBJECT IDENTIFIER ::= {
*      iso(1) member-body(2) us(840) x9-57(10040) x9algorithm(4) 1 }
*/
#define DER_OID_V_id_dsa DER_P_OBJECT, 7, 0x2A, 0x86, 0x48, 0xCE, 0x38, 0x04, 0x01
#define DER_OID_SZ_id_dsa 9
extern const unsigned char ossl_der_oid_id_dsa[DER_OID_SZ_id_dsa];

/*
* id-dsa-with-sha1 OBJECT IDENTIFIER ::=  {
*      iso(1) member-body(2) us(840) x9-57 (10040) x9algorithm(4) 3 }
*/
#define DER_OID_V_id_dsa_with_sha1 DER_P_OBJECT, 7, 0x2A, 0x86, 0x48, 0xCE, 0x38, 0x04,
 0x03
#define DER_OID_SZ_id_dsa_with_sha1 9
extern const unsigned char ossl_der_oid_id_dsa_with_sha1[DER_OID_SZ_id_dsa_with_sha1];

/*
* id-dsa-with-sha224 OBJECT IDENTIFIER ::= { sigAlgs 1 }
*/
#define DER_OID_V_id_dsa_with_sha224 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x03,
0x01
#define DER_OID_SZ_id_dsa_with_sha224 11
extern const unsigned char ossl_der_oid_id_dsa_with_sha224[DER_OID_SZ_id_dsa_with_sha224];

/*
* id-dsa-with-sha256 OBJECT IDENTIFIER ::= { sigAlgs 2 }
*/
#define DER_OID_V_id_dsa_with_sha256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x03,
0x02
#define DER_OID_SZ_id_dsa_with_sha256 11
extern const unsigned char ossl_der_oid_id_dsa_with_sha256[DER_OID_SZ_id_dsa_with_sha256];

/*
* id-dsa-with-sha384 OBJECT IDENTIFIER ::= { sigAlgs 3 }
*/
#define DER_OID_V_id_dsa_with_sha384 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x03,
0x03
#define DER_OID_SZ_id_dsa_with_sha384 11
```

```
extern const unsigned char ossl_der_oid_id_dsa_with_sha384[DER_OID_SZ_id_dsa_with_sha384];

/*
 * id-dsa-with-sha512 OBJECT IDENTIFIER ::= { sigAlgs 4 }
*/
#define DER_OID_V_id_dsa_with_sha512 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x03,
0x04
#define DER_OID_SZ_id_dsa_with_sha512 11
extern const unsigned char ossl_der_oid_id_dsa_with_sha512[DER_OID_SZ_id_dsa_with_sha512];

/*
* id-dsa-with-sha3-224 OBJECT IDENTIFIER ::= { sigAlgs 5 }
*/
#define DER_OID_V_id_dsa_with_sha3_224 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x03, 0x05
#define DER_OID_SZ_id_dsa_with_sha3_224 11
extern const unsigned char ossl_der_oid_id_dsa_with_sha3_224[DER_OID_SZ_id_dsa_with_sha3_224];

/*
* id-dsa-with-sha3-256 OBJECT IDENTIFIER ::= { sigAlgs 6 }
*/
#define DER_OID_V_id_dsa_with_sha3_256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x03, 0x06
#define DER_OID_SZ_id_dsa_with_sha3_256 11
extern const unsigned char ossl_der_oid_id_dsa_with_sha3_256[DER_OID_SZ_id_dsa_with_sha3_256];

/*
* id-dsa-with-sha3-384
 OBJECT IDENTIFIER ::= { sigAlgs 7 }
*/
#define DER_OID_V_id_dsa_with_sha3_384 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x03, 0x07
#define DER_OID_SZ_id_dsa_with_sha3_384 11
extern const unsigned char ossl_der_oid_id_dsa_with_sha3_384[DER_OID_SZ_id_dsa_with_sha3_384];

/*
* id-dsa-with-sha3-512 OBJECT IDENTIFIER ::= { sigAlgs 8 }
*/
#define DER_OID_V_id_dsa_with_sha3_512 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x03, 0x08
#define DER_OID_SZ_id_dsa_with_sha3_512 11
extern const unsigned char ossl_der_oid_id_dsa_with_sha3_512[DER_OID_SZ_id_dsa_with_sha3_512];


/* Subject Public Key Info */
int ossl_DER_w_algorithmIdentifier_DSA(WPACKET *pkt, int tag, DSA *dsa);
/* Signature */
int ossl_DER_w_algorithmIdentifier_DSA_with_MD(WPACKET *pkt, int tag,
```

```
                                DSA *dsa, int mdnid);
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/crypto.h.in
*
* Copyright 1995-2022 The OpenSSL Project Authors. All Rights Reserved.
* Copyright (c) 2002, Oracle and/or its affiliates. All rights reserved
*
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* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_CRYPTO_H
# define OPENSSL_CRYPTO_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_CRYPTO_H
# endif

# include <stdlib.h>
# include <time.h>

# include <openssl/e_os2.h>

# ifndef OPENSSL_NO_STDIO
#  include <stdio.h>
# endif

# include <openssl/safestack.h>
# include <openssl/opensslv.h>
# include <openssl/types.h>
# include <openssl/opensslconf.h>
# include <openssl/cryptoerr.h>
# include <openssl/core.h>

# ifdef CHARSET_EBCDIC
#  include
 <openssl/ebcdic.h>
# endif

/*
* Resolve problems on some operating systems with symbol names that clash
```

```
* one way or another
*/
# include <openssl/symhacks.h>

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  include <openssl/opensslv.h>
# endif

#ifdef  __cplusplus
extern "C" {
#endif

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define SSLeay                  OpenSSL_version_num
#  define SSLeay_version          OpenSSL_version
#  define SSLEAY_VERSION_NUMBER   OPENSSL_VERSION_NUMBER
#  define SSLEAY_VERSION          OPENSSL_VERSION
#  define SSLEAY_CFLAGS           OPENSSL_CFLAGS
#  define SSLEAY_BUILT_ON         OPENSSL_BUILT_ON
#  define SSLEAY_PLATFORM         OPENSSL_PLATFORM
#  define SSLEAY_DIR              OPENSSL_DIR

/*
* Old type for allocating dynamic locks. No longer used. Use the new thread
* API instead.
*/
typedef struct {
   int dummy;
} CRYPTO_dynlock;

# endif /* OPENSSL_NO_DEPRECATED_1_1_0 */

typedef void CRYPTO_RWLOCK;

CRYPTO_RWLOCK *CRYPTO_THREAD_lock_new(void);
__owur
 int CRYPTO_THREAD_read_lock(CRYPTO_RWLOCK *lock);
__owur int CRYPTO_THREAD_write_lock(CRYPTO_RWLOCK *lock);
int CRYPTO_THREAD_unlock(CRYPTO_RWLOCK *lock);
void CRYPTO_THREAD_lock_free(CRYPTO_RWLOCK *lock);

int CRYPTO_atomic_add(int *val, int amount, int *ret, CRYPTO_RWLOCK *lock);
int CRYPTO_atomic_or(uint64_t *val, uint64_t op, uint64_t *ret,
                     CRYPTO_RWLOCK *lock);
int CRYPTO_atomic_load(uint64_t *val, uint64_t *ret, CRYPTO_RWLOCK *lock);

/* No longer needed, so this is a no-op */
#define OPENSSL_malloc_init() while(0) continue
```

```
# define OPENSSL_malloc(num) \
      CRYPTO_malloc(num, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_zalloc(num) \
      CRYPTO_zalloc(num, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_realloc(addr, num) \
      CRYPTO_realloc(addr, num, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_clear_realloc(addr, old_num, num) \
      CRYPTO_clear_realloc(addr, old_num, num, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_clear_free(addr,
 num) \
      CRYPTO_clear_free(addr, num, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_free(addr) \
      CRYPTO_free(addr, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_memdup(str, s) \
      CRYPTO_memdup((str), s, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_strdup(str) \
      CRYPTO_strdup(str, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_strndup(str, n) \
      CRYPTO_strndup(str, n, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_secure_malloc(num) \
      CRYPTO_secure_malloc(num, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_secure_zalloc(num) \
      CRYPTO_secure_zalloc(num, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_secure_free(addr) \
      CRYPTO_secure_free(addr, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_secure_clear_free(addr, num) \
      CRYPTO_secure_clear_free(addr, num, OPENSSL_FILE, OPENSSL_LINE)
# define OPENSSL_secure_actual_size(ptr) \
      CRYPTO_secure_actual_size(ptr)

size_t OPENSSL_strlcpy(char *dst, const char *src, size_t siz);
size_t
 OPENSSL_strlcat(char *dst, const char *src, size_t siz);
size_t OPENSSL_strnlen(const char *str, size_t maxlen);
int OPENSSL_buf2hexstr_ex(char *str, size_t str_n, size_t *strlength,
                    const unsigned char *buf, size_t buflen,
                    const char sep);
char *OPENSSL_buf2hexstr(const unsigned char *buf, long buflen);
int OPENSSL_hexstr2buf_ex(unsigned char *buf, size_t buf_n, size_t *buflen,
                    const char *str, const char sep);
unsigned char *OPENSSL_hexstr2buf(const char *str, long *buflen);
int OPENSSL_hexchar2int(unsigned char c);
int OPENSSL_strcasecmp(const char *s1, const char *s2);
int OPENSSL_strncasecmp(const char *s1, const char *s2, size_t n);

# define OPENSSL_MALLOC_MAX_NELEMS(type)  (((1U<<(sizeof(int)*8-1))-1)/sizeof(type))
```

```
/*
* These functions return the values of OPENSSL_VERSION_MAJOR,
* OPENSSL_VERSION_MINOR, OPENSSL_VERSION_PATCH, OPENSSL_VERSION_PRE_RELEASE
* and OPENSSL_VERSION_BUILD_METADATA,
 respectively.
*/
unsigned int OPENSSL_version_major(void);
unsigned int OPENSSL_version_minor(void);
unsigned int OPENSSL_version_patch(void);
const char *OPENSSL_version_pre_release(void);
const char *OPENSSL_version_build_metadata(void);

unsigned long OpenSSL_version_num(void);
const char *OpenSSL_version(int type);
# define OPENSSL_VERSION                0
# define OPENSSL_CFLAGS                 1
# define OPENSSL_BUILT_ON               2
# define OPENSSL_PLATFORM               3
# define OPENSSL_DIR                    4
# define OPENSSL_ENGINES_DIR            5
# define OPENSSL_VERSION_STRING         6
# define OPENSSL_FULL_VERSION_STRING    7
# define OPENSSL_MODULES_DIR            8
# define OPENSSL_CPU_INFO               9

const char *OPENSSL_info(int type);
/*
* The series starts at 1001 to avoid confusion with the OpenSSL_version
* types.
*/
# define OPENSSL_INFO_CONFIG_DIR                1001
# define OPENSSL_INFO_ENGINES_DIR               1002
# define OPENSSL_INFO_MODULES_DIR
            1003
# define OPENSSL_INFO_DSO_EXTENSION             1004
# define OPENSSL_INFO_DIR_FILENAME_SEPARATOR    1005
# define OPENSSL_INFO_LIST_SEPARATOR            1006
# define OPENSSL_INFO_SEED_SOURCE               1007
# define OPENSSL_INFO_CPU_SETTINGS              1008

int OPENSSL_issetugid(void);

struct crypto_ex_data_st {
   OSSL_LIB_CTX *ctx;
   STACK_OF(void) *sk;
};

SKM_DEFINE_STACK_OF_INTERNAL(void, void, void)
```

```
#define sk_void_num(sk) OPENSSL_sk_num(ossl_check_const_void_sk_type(sk))
#define sk_void_value(sk, idx) ((void *)OPENSSL_sk_value(ossl_check_const_void_sk_type(sk), (idx)))
#define sk_void_new(cmp) ((STACK_OF(void) *)OPENSSL_sk_new(ossl_check_void_compfunc_type(cmp)))
#define sk_void_new_null() ((STACK_OF(void) *)OPENSSL_sk_new_null())
#define sk_void_new_reserve(cmp, n) ((STACK_OF(void)
*)OPENSSL_sk_new_reserve(ossl_check_void_compfunc_type(cmp), (n)))
#define sk_void_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_void_sk_type(sk), (n))
#define
 sk_void_free(sk) OPENSSL_sk_free(ossl_check_void_sk_type(sk))
#define sk_void_zero(sk) OPENSSL_sk_zero(ossl_check_void_sk_type(sk))
#define sk_void_delete(sk, i) ((void *)OPENSSL_sk_delete(ossl_check_void_sk_type(sk), (i)))
#define sk_void_delete_ptr(sk, ptr) ((void *)OPENSSL_sk_delete_ptr(ossl_check_void_sk_type(sk),
ossl_check_void_type(ptr)))
#define sk_void_push(sk, ptr) OPENSSL_sk_push(ossl_check_void_sk_type(sk), ossl_check_void_type(ptr))
#define sk_void_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_void_sk_type(sk), ossl_check_void_type(ptr))
#define sk_void_pop(sk) ((void *)OPENSSL_sk_pop(ossl_check_void_sk_type(sk)))
#define sk_void_shift(sk) ((void *)OPENSSL_sk_shift(ossl_check_void_sk_type(sk)))
#define sk_void_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_void_sk_type(sk),ossl_check_void_freefunc_type(freefunc))
#define sk_void_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_void_sk_type(sk), ossl_check_void_type(ptr),
(idx))
#define sk_void_set(sk, idx, ptr) ((void
 *)OPENSSL_sk_set(ossl_check_void_sk_type(sk), (idx), ossl_check_void_type(ptr)))
#define sk_void_find(sk, ptr) OPENSSL_sk_find(ossl_check_void_sk_type(sk), ossl_check_void_type(ptr))
#define sk_void_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_void_sk_type(sk), ossl_check_void_type(ptr))
#define sk_void_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_void_sk_type(sk),
ossl_check_void_type(ptr), pnum)
#define sk_void_sort(sk) OPENSSL_sk_sort(ossl_check_void_sk_type(sk))
#define sk_void_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_void_sk_type(sk))
#define sk_void_dup(sk) ((STACK_OF(void) *)OPENSSL_sk_dup(ossl_check_const_void_sk_type(sk)))
#define sk_void_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(void)
*)OPENSSL_sk_deep_copy(ossl_check_const_void_sk_type(sk), ossl_check_void_copyfunc_type(copyfunc),
ossl_check_void_freefunc_type(freefunc)))
#define sk_void_set_cmp_func(sk, cmp)
((sk_void_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_void_sk_type(sk),
ossl_check_void_compfunc_type(cmp)))



/*
 * Per class, we have a STACK of function pointers.
*/
# define CRYPTO_EX_INDEX_SSL            0
# define CRYPTO_EX_INDEX_SSL_CTX        1
# define CRYPTO_EX_INDEX_SSL_SESSION    2
# define CRYPTO_EX_INDEX_X509           3
# define CRYPTO_EX_INDEX_X509_STORE     4
# define CRYPTO_EX_INDEX_X509_STORE_CTX 5
```

```
# define CRYPTO_EX_INDEX_DH              6
# define CRYPTO_EX_INDEX_DSA             7
# define CRYPTO_EX_INDEX_EC_KEY          8
# define CRYPTO_EX_INDEX_RSA             9
# define CRYPTO_EX_INDEX_ENGINE          10
# define CRYPTO_EX_INDEX_UI              11
# define CRYPTO_EX_INDEX_BIO             12
# define CRYPTO_EX_INDEX_APP             13
# define CRYPTO_EX_INDEX_UI_METHOD       14
# define CRYPTO_EX_INDEX_RAND_DRBG       15
# define CRYPTO_EX_INDEX_DRBG            CRYPTO_EX_INDEX_RAND_DRBG
# define CRYPTO_EX_INDEX_OSSL_LIB_CTX    16
# define CRYPTO_EX_INDEX_EVP_PKEY        17
# define CRYPTO_EX_INDEX__COUNT          18

typedef void
 CRYPTO_EX_new (void *parent, void *ptr, CRYPTO_EX_DATA *ad,
                int idx, long argl, void *argp);
typedef void CRYPTO_EX_free (void *parent, void *ptr, CRYPTO_EX_DATA *ad,
                int idx, long argl, void *argp);
typedef int CRYPTO_EX_dup (CRYPTO_EX_DATA *to, const CRYPTO_EX_DATA *from,
                void **from_d, int idx, long argl, void *argp);
__owur int CRYPTO_get_ex_new_index(int class_index, long argl, void *argp,
                        CRYPTO_EX_new *new_func,
                        CRYPTO_EX_dup *dup_func,
                        CRYPTO_EX_free *free_func);
/* No longer use an index. */
int CRYPTO_free_ex_index(int class_index, int idx);

/*
* Initialise/duplicate/free CRYPTO_EX_DATA variables corresponding to a
* given class (invokes whatever per-class callbacks are applicable)
*/
int CRYPTO_new_ex_data(int class_index, void *obj, CRYPTO_EX_DATA *ad);
int CRYPTO_dup_ex_data(int class_index,
 CRYPTO_EX_DATA *to,
               const CRYPTO_EX_DATA *from);

void CRYPTO_free_ex_data(int class_index, void *obj, CRYPTO_EX_DATA *ad);

/* Allocate a single item in the CRYPTO_EX_DATA variable */
int CRYPTO_alloc_ex_data(int class_index, void *obj, CRYPTO_EX_DATA *ad,
                int idx);

/*
* Get/set data in a CRYPTO_EX_DATA variable corresponding to a particular
* index (relative to the class type involved)
*/
```

```
int CRYPTO_set_ex_data(CRYPTO_EX_DATA *ad, int idx, void *val);
void *CRYPTO_get_ex_data(const CRYPTO_EX_DATA *ad, int idx);

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
/*
* This function cleans up all "ex_data" state. It mustn't be called under
* potential race-conditions.
*/
# define CRYPTO_cleanup_all_ex_data() while(0) continue

/*
* The old locking functions have been removed completely without compatibility
* macros. This is because the old functions either could not properly report
* errors, or the returned error values were not clearly
 documented.
* Replacing the locking functions with no-ops would cause race condition
* issues in the affected applications. It is far better for them to fail at
* compile time.
* On the other hand, the locking callbacks are no longer used.  Consequently,
* the callback management functions can be safely replaced with no-op macros.
*/
#  define CRYPTO_num_locks()            (1)
#  define CRYPTO_set_locking_callback(func)
#  define CRYPTO_get_locking_callback()         (NULL)
#  define CRYPTO_set_add_lock_callback(func)
#  define CRYPTO_get_add_lock_callback()        (NULL)

/*
* These defines where used in combination with the old locking callbacks,
* they are not called anymore, but old code that's not called might still
* use them.
*/
#  define CRYPTO_LOCK             1
#  define CRYPTO_UNLOCK           2
#  define CRYPTO_READ             4
#  define CRYPTO_WRITE            8

/* This structure is no longer used */
typedef struct crypto_threadid_st {
   int dummy;
}
 CRYPTO_THREADID;
/* Only use CRYPTO_THREADID_set_[numeric|pointer]() within callbacks */
#  define CRYPTO_THREADID_set_numeric(id, val)
#  define CRYPTO_THREADID_set_pointer(id, ptr)
#  define CRYPTO_THREADID_set_callback(threadid_func)   (0)
#  define CRYPTO_THREADID_get_callback()                (NULL)
#  define CRYPTO_THREADID_current(id)
```

```
# define CRYPTO_THREADID_cmp(a, b)                    (-1)
# define CRYPTO_THREADID_cpy(dest, src)
# define CRYPTO_THREADID_hash(id)                     (0UL)

# ifndef OPENSSL_NO_DEPRECATED_1_0_0
#  define CRYPTO_set_id_callback(func)
#  define CRYPTO_get_id_callback()                    (NULL)
#  define CRYPTO_thread_id()                          (0UL)
# endif /* OPENSSL_NO_DEPRECATED_1_0_0 */

# define CRYPTO_set_dynlock_create_callback(dyn_create_function)
# define CRYPTO_set_dynlock_lock_callback(dyn_lock_function)
# define CRYPTO_set_dynlock_destroy_callback(dyn_destroy_function)
# define CRYPTO_get_dynlock_create_callback()
      (NULL)
# define CRYPTO_get_dynlock_lock_callback()           (NULL)
# define CRYPTO_get_dynlock_destroy_callback()        (NULL)
# endif /* OPENSSL_NO_DEPRECATED_1_1_0 */

typedef void *(*CRYPTO_malloc_fn)(size_t num, const char *file, int line);
typedef void *(*CRYPTO_realloc_fn)(void *addr, size_t num, const char *file,
                                   int line);
typedef void (*CRYPTO_free_fn)(void *addr, const char *file, int line);
int CRYPTO_set_mem_functions(CRYPTO_malloc_fn malloc_fn,
                             CRYPTO_realloc_fn realloc_fn,
                             CRYPTO_free_fn free_fn);
void CRYPTO_get_mem_functions(CRYPTO_malloc_fn *malloc_fn,
                              CRYPTO_realloc_fn *realloc_fn,
                              CRYPTO_free_fn *free_fn);

void *CRYPTO_malloc(size_t num, const char *file, int line);
void *CRYPTO_zalloc(size_t num, const char *file, int line);
void *CRYPTO_memdup(const void *str, size_t siz, const char *file, int line);
char
 *CRYPTO_strdup(const char *str, const char *file, int line);
char *CRYPTO_strndup(const char *str, size_t s, const char *file, int line);
void CRYPTO_free(void *ptr, const char *file, int line);
void CRYPTO_clear_free(void *ptr, size_t num, const char *file, int line);
void *CRYPTO_realloc(void *addr, size_t num, const char *file, int line);
void *CRYPTO_clear_realloc(void *addr, size_t old_num, size_t num,
                           const char *file, int line);

int CRYPTO_secure_malloc_init(size_t sz, size_t minsize);
int CRYPTO_secure_malloc_done(void);
void *CRYPTO_secure_malloc(size_t num, const char *file, int line);
void *CRYPTO_secure_zalloc(size_t num, const char *file, int line);
void CRYPTO_secure_free(void *ptr, const char *file, int line);
void CRYPTO_secure_clear_free(void *ptr, size_t num,
```

```
                        const char *file, int line);
int CRYPTO_secure_allocated(const void *ptr);
int CRYPTO_secure_malloc_initialized(void);
size_t CRYPTO_secure_actual_size(void
 *ptr);
size_t CRYPTO_secure_used(void);

void OPENSSL_cleanse(void *ptr, size_t len);

# ifndef OPENSSL_NO_CRYPTO_MDEBUG
/*
* The following can be used to detect memory leaks in the library. If
* used, it turns on malloc checking
*/
# define CRYPTO_MEM_CHECK_OFF     0x0   /* Control only */
# define CRYPTO_MEM_CHECK_ON      0x1   /* Control and mode bit */
# define CRYPTO_MEM_CHECK_ENABLE  0x2   /* Control and mode bit */
# define CRYPTO_MEM_CHECK_DISABLE 0x3   /* Control only */

void CRYPTO_get_alloc_counts(int *mcount, int *rcount, int *fcount);
#  ifndef OPENSSL_NO_DEPRECATED_3_0
#    define OPENSSL_mem_debug_push(info) \
       CRYPTO_mem_debug_push(info, OPENSSL_FILE, OPENSSL_LINE)
#    define OPENSSL_mem_debug_pop() \
       CRYPTO_mem_debug_pop()
#  endif
#  ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 int CRYPTO_set_mem_debug(int flag);
OSSL_DEPRECATEDIN_3_0 int CRYPTO_mem_ctrl(int mode);
OSSL_DEPRECATEDIN_3_0 int CRYPTO_mem_debug_push(const char *info,
                                const char *file, int line);
OSSL_DEPRECATEDIN_3_0 int CRYPTO_mem_debug_pop(void);
OSSL_DEPRECATEDIN_3_0 void CRYPTO_mem_debug_malloc(void *addr, size_t num,
                                  int flag,
                                  const char *file, int line);
OSSL_DEPRECATEDIN_3_0 void CRYPTO_mem_debug_realloc(void *addr1, void *addr2,
                                   size_t num, int flag,
                                   const char *file, int line);
OSSL_DEPRECATEDIN_3_0 void CRYPTO_mem_debug_free(void *addr, int flag,
                                const char *file, int line);
OSSL_DEPRECATEDIN_3_0
int CRYPTO_mem_leaks_cb(int (*cb)(const char *str, size_t len, void *u),
                void *u);
#  endif
#  ifndef OPENSSL_NO_STDIO
#  ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 int CRYPTO_mem_leaks_fp(FILE *);
#  endif
```

```
#
 endif
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 int CRYPTO_mem_leaks(BIO *bio);
# endif
# endif /* OPENSSL_NO_CRYPTO_MDEBUG */

/* die if we have to */
ossl_noreturn void OPENSSL_die(const char *assertion, const char *file, int line);
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define OpenSSLDie(f,l,a) OPENSSL_die((a),(f),(l))
# endif
# define OPENSSL_assert(e) \
   (void)((e) ? 0 : (OPENSSL_die("assertion failed: " #e, OPENSSL_FILE, OPENSSL_LINE), 1))

int OPENSSL_isservice(void);

void OPENSSL_init(void);
# ifdef OPENSSL_SYS_UNIX
#  ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 void OPENSSL_fork_prepare(void);
OSSL_DEPRECATEDIN_3_0 void OPENSSL_fork_parent(void);
OSSL_DEPRECATEDIN_3_0 void OPENSSL_fork_child(void);
#  endif
# endif

struct tm *OPENSSL_gmtime(const time_t *timer, struct tm *result);
int OPENSSL_gmtime_adj(struct tm *tm, int offset_day, long offset_sec);
int OPENSSL_gmtime_diff(int *pday, int *psec,
                        const struct tm *from, const
 struct tm *to);

/*
* CRYPTO_memcmp returns zero iff the |len| bytes at |a| and |b| are equal.
* It takes an amount of time dependent on |len|, but independent of the
* contents of |a| and |b|. Unlike memcmp, it cannot be used to put elements
* into a defined order as the return value when a != b is undefined, other
* than to be non-zero.
*/
int CRYPTO_memcmp(const void * in_a, const void * in_b, size_t len);

/* Standard initialisation options */
# define OPENSSL_INIT_NO_LOAD_CRYPTO_STRINGS 0x00000001L
# define OPENSSL_INIT_LOAD_CRYPTO_STRINGS    0x00000002L
# define OPENSSL_INIT_ADD_ALL_CIPHERS        0x00000004L
# define OPENSSL_INIT_ADD_ALL_DIGESTS        0x00000008L
# define OPENSSL_INIT_NO_ADD_ALL_CIPHERS     0x00000010L
# define OPENSSL_INIT_NO_ADD_ALL_DIGESTS     0x00000020L
```

```
# define OPENSSL_INIT_LOAD_CONFIG           0x00000040L
# define OPENSSL_INIT_NO_LOAD_CONFIG        0x00000080L
# define OPENSSL_INIT_ASYNC                 0x00000100L
# define OPENSSL_INIT_ENGINE_RDRAND
        0x00000200L
# define OPENSSL_INIT_ENGINE_DYNAMIC        0x00000400L
# define OPENSSL_INIT_ENGINE_OPENSSL        0x00000800L
# define OPENSSL_INIT_ENGINE_CRYPTODEV      0x00001000L
# define OPENSSL_INIT_ENGINE_CAPI           0x00002000L
# define OPENSSL_INIT_ENGINE_PADLOCK        0x00004000L
# define OPENSSL_INIT_ENGINE_AFALG          0x00008000L
/* FREE:                                    0x00010000L */
# define OPENSSL_INIT_ATFORK                0x00020000L
/* OPENSSL_INIT_BASE_ONLY                   0x00040000L */
# define OPENSSL_INIT_NO_ATEXIT             0x00080000L
/* OPENSSL_INIT flag range 0x03f00000 reserved for OPENSSL_init_ssl() */
/* FREE: 0x04000000L */
/* FREE: 0x08000000L */
/* FREE: 0x10000000L */
/* FREE: 0x20000000L */
/* FREE: 0x40000000L */
/* FREE: 0x80000000L */
/* Max OPENSSL_INIT flag value is 0x80000000 */

/* openssl and dasync not counted as builtin */
# define OPENSSL_INIT_ENGINE_ALL_BUILTIN \
  (OPENSSL_INIT_ENGINE_RDRAND | OPENSSL_INIT_ENGINE_DYNAMIC
 \
  | OPENSSL_INIT_ENGINE_CRYPTODEV | OPENSSL_INIT_ENGINE_CAPI | \
  OPENSSL_INIT_ENGINE_PADLOCK)

/* Library initialisation functions */
void OPENSSL_cleanup(void);
int OPENSSL_init_crypto(uint64_t opts, const OPENSSL_INIT_SETTINGS *settings);
int OPENSSL_atexit(void (*handler)(void));
void OPENSSL_thread_stop(void);
void OPENSSL_thread_stop_ex(OSSL_LIB_CTX *ctx);

/* Low-level control of initialization */
OPENSSL_INIT_SETTINGS *OPENSSL_INIT_new(void);
# ifndef OPENSSL_NO_STDIO
int OPENSSL_INIT_set_config_filename(OPENSSL_INIT_SETTINGS *settings,
                                     const char *config_filename);
void OPENSSL_INIT_set_config_file_flags(OPENSSL_INIT_SETTINGS *settings,
                                        unsigned long flags);
int OPENSSL_INIT_set_config_appname(OPENSSL_INIT_SETTINGS *settings,
                                    const char *config_appname);
# endif
```

```
void OPENSSL_INIT_free(OPENSSL_INIT_SETTINGS *settings);

# if defined(OPENSSL_THREADS)
 && !defined(CRYPTO_TDEBUG)
#  if defined(_WIN32)
#   if defined(BASETYPES) || defined(_WINDEF_H)
/* application has to include <windows.h> in order to use this */
typedef DWORD CRYPTO_THREAD_LOCAL;
typedef DWORD CRYPTO_THREAD_ID;

typedef LONG CRYPTO_ONCE;
#    define CRYPTO_ONCE_STATIC_INIT 0
#   endif
#  else
#   if defined(__TANDEM) && defined(_SPT_MODEL_)
#    define  SPT_THREAD_SIGNAL 1
#    define  SPT_THREAD_AWARE 1
#    include <spthread.h>
#   else
#    include <pthread.h>
#   endif
typedef pthread_once_t CRYPTO_ONCE;
typedef pthread_key_t CRYPTO_THREAD_LOCAL;
typedef pthread_t CRYPTO_THREAD_ID;

#   define CRYPTO_ONCE_STATIC_INIT PTHREAD_ONCE_INIT
#  endif
# endif

# if !defined(CRYPTO_ONCE_STATIC_INIT)
typedef unsigned int CRYPTO_ONCE;
typedef unsigned int CRYPTO_THREAD_LOCAL;
typedef unsigned int CRYPTO_THREAD_ID;
#  define CRYPTO_ONCE_STATIC_INIT 0
# endif

int CRYPTO_THREAD_run_once(CRYPTO_ONCE *once, void (*init)(void));

int CRYPTO_THREAD_init_local(CRYPTO_THREAD_LOCAL
 *key, void (*cleanup)(void *));
void *CRYPTO_THREAD_get_local(CRYPTO_THREAD_LOCAL *key);
int CRYPTO_THREAD_set_local(CRYPTO_THREAD_LOCAL *key, void *val);
int CRYPTO_THREAD_cleanup_local(CRYPTO_THREAD_LOCAL *key);

CRYPTO_THREAD_ID CRYPTO_THREAD_get_current_id(void);
int CRYPTO_THREAD_compare_id(CRYPTO_THREAD_ID a, CRYPTO_THREAD_ID b);

OSSL_LIB_CTX *OSSL_LIB_CTX_new(void);
```

```
OSSL_LIB_CTX *OSSL_LIB_CTX_new_from_dispatch(const OSSL_CORE_HANDLE *handle,
                                             const OSSL_DISPATCH *in);
OSSL_LIB_CTX *OSSL_LIB_CTX_new_child(const OSSL_CORE_HANDLE *handle,
                                     const OSSL_DISPATCH *in);
int OSSL_LIB_CTX_load_config(OSSL_LIB_CTX *ctx, const char *config_file);
void OSSL_LIB_CTX_free(OSSL_LIB_CTX *);
OSSL_LIB_CTX *OSSL_LIB_CTX_get0_global_default(void);
OSSL_LIB_CTX *OSSL_LIB_CTX_set0_default(OSSL_LIB_CTX *libctx);

# ifdef  __cplusplus
}
# endif
#endif
```

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```
"""
{
 'variables': {
   'openssl_sources': [
     'openssl/ssl/bio_ssl.c',
     'openssl/ssl/d1_lib.c',
     'openssl/ssl/d1_msg.c',
     'openssl/ssl/d1_srtp.c',
     'openssl/ssl/methods.c',
     'openssl/ssl/pqueue.c',
     'openssl/ssl/s3_enc.c',
     'openssl/ssl/s3_lib.c',
     'openssl/ssl/s3_msg.c',
     'openssl/ssl/ssl_asn1.c',
     'openssl/ssl/ssl_cert.c',
     'openssl/ssl/ssl_ciph.c',
     'openssl/ssl/ssl_conf.c',
     'openssl/ssl/ssl_err.c',
     'openssl/ssl/ssl_err_legacy.c',
     'openssl/ssl/ssl_init.c',
     'openssl/ssl/ssl_lib.c',
     'openssl/ssl/ssl_mcnf.c',
     'openssl/ssl/ssl_rsa.c',
     'openssl/ssl/ssl_rsa_legacy.c',
     'openssl/ssl/ssl_sess.c',
     'openssl/ssl/ssl_stat.c',
     'openssl/ssl/ssl_txt.c',
     'openssl/ssl/ssl_utst.c',
     'openssl/ssl/t1_enc.c',
     'openssl/ssl/t1_lib.c',
```

'openssl/ssl/t1_trce.c',
'openssl/ssl/tls13_enc.c',
'openssl/ssl/tls_depr.c',
'openssl/ssl/tls_srp.c',
'openssl/ssl/record/dtls1_bitmap.c',
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  'openssl_sources_BSD-x86': [
    './config/archs/BSD-x86/no-asm/providers/common/der/der_sm2_gen.c',
    './config/archs/BSD-x86/no-asm/providers/common/der/der_digests_gen.c',
    './config/archs/BSD-x86/no-asm/providers/common/der/der_dsa_gen.c',
    './config/archs/BSD-x86/no-asm/providers/common/der/der_ec_gen.c',
    './config/archs/BSD-x86/no-asm/providers/common/der/der_ecx_gen.c',
    './config/archs/BSD-x86/no-asm/providers/common/der/der_rsa_gen.c',
    './config/archs/BSD-x86/no-asm/providers/common/der/der_wrap_gen.c',

'./config/archs/BSD-x86/no-asm/providers/legacy.ld',
    './config/archs/BSD-x86/no-asm/providers/fips.ld',
  ],
  'openssl_defines_BSD-x86': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'OPENSSL_PIC',
  ],
  'openssl_cflags_BSD-x86': [
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
},
'include_dirs': [
  '.',
```

```
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
```

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```
{
 'variables': {
   'openssl_defines_BSD-x86': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'OPENSSL_PIC',
   ],
   'openssl_cflags_BSD-x86': [
     '-Wall -O3 -fomit-frame-pointer',
     '-pthread',
     '-Wall -O3 -fomit-frame-pointer',
   ],
   'openssl_ex_libs_BSD-x86': [
     '-pthread',
   ],
   'openssl_cli_srcs_BSD-x86': [
     'openssl/apps/lib/cmp_mock_srv.c',
     'openssl/apps/asn1parse.c',
     'openssl/apps/ca.c',
     'openssl/apps/ciphers.c',
     'openssl/apps/cmp.c',
     'openssl/apps/cms.c',
     'openssl/apps/crl.c',
     'openssl/apps/crl2pkcs7.c',
```

'openssl/apps/dgst.c',
'openssl/apps/dhparam.c',
'openssl/apps/dsa.c',
'openssl/apps/dsaparam.c',
'openssl/apps/ec.c',
'openssl/apps/ecparam.c',
'openssl/apps/enc.c',
'openssl/apps/engine.c',
'openssl/apps/errstr.c',
'openssl/apps/fipsinstall.c',
'openssl/apps/gendsa.c',
'openssl/apps/genpkey.c',

'openssl/apps/genrsa.c',
'openssl/apps/info.c',
'openssl/apps/kdf.c',
'openssl/apps/list.c',
'openssl/apps/mac.c',
'openssl/apps/nseq.c',
'openssl/apps/ocsp.c',
'openssl/apps/openssl.c',
'openssl/apps/passwd.c',
'openssl/apps/pkcs12.c',
'openssl/apps/pkcs7.c',
'openssl/apps/pkcs8.c',
'openssl/apps/pkey.c',
'openssl/apps/pkeyparam.c',
'openssl/apps/pkeyutl.c',
'openssl/apps/prime.c',
'./config/archs/BSD-x86/no-asm/apps/progs.c',
'openssl/apps/rand.c',
'openssl/apps/rehash.c',
'openssl/apps/req.c',
'openssl/apps/rsa.c',
'openssl/apps/rsautl.c',
'openssl/apps/s_client.c',
'openssl/apps/s_server.c',
'openssl/apps/s_time.c',
'openssl/apps/sess_id.c',
'openssl/apps/smime.c',
'openssl/apps/speed.c',
'openssl/apps/spkac.c',
'openssl/apps/srp.c',
'openssl/apps/storeutl.c',
'openssl/apps/ts.c',
'openssl/apps/verify.c',
'openssl/apps/version.c',
'openssl/apps/x509.c',

```
    'openssl/apps/lib/app_libctx.c',
    'openssl/apps/lib/app_params.c',
    'openssl/apps/lib/app_provider.c',
    'openssl/apps/lib/app_rand.c',
    'openssl/apps/lib/app_x509.c',
    'openssl/apps/lib/apps.c',
    'openssl/apps/lib/apps_ui.c',
    'openssl/apps/lib/columns.c',
    'openssl/apps/lib/engine.c',
    'openssl/apps/lib/engine_loader.c',
    'openssl/apps/lib/fmt.c',
    'openssl/apps/lib/http_server.c',
    'openssl/apps/lib/names.c',
    'openssl/apps/lib/opt.c',
    'openssl/apps/lib/s_cb.c',
    'openssl/apps/lib/s_socket.c',
    'openssl/apps/lib/tlssrp_depr.c',
  ],
},
'defines': ['<@(openssl_defines_BSD-x86)'],
'include_dirs': [
  './include',
],
'cflags' : ['<@(openssl_cflags_BSD-x86)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
```

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*/

#include "internal/der.h"

/* Well known OIDs precompiled */

/*
* sigAlgs OBJECT IDENTIFIER ::= { nistAlgorithms 3 }
*/
#define DER_OID_V_sigAlgs DER_P_OBJECT, 8, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x03
#define DER_OID_SZ_sigAlgs 10
extern const unsigned char ossl_der_oid_sigAlgs[DER_OID_SZ_sigAlgs];

/*
* id-sha1  OBJECT IDENTIFIER  ::=  { iso(1)
*                    identified-organization(3) oiw(14)
*                    secsig(3) algorithms(2) 26 }
*/
#define DER_OID_V_id_sha1 DER_P_OBJECT, 5, 0x2B, 0x0E, 0x03, 0x02, 0x1A
#define DER_OID_SZ_id_sha1
 7
extern const unsigned char ossl_der_oid_id_sha1[DER_OID_SZ_id_sha1];

/*
* id-md2  OBJECT IDENTIFIER ::= {
*   iso(1) member-body(2) us(840) rsadsi(113549) digestAlgorithm(2) 2 }
*/
#define DER_OID_V_id_md2 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x02, 0x02
#define DER_OID_SZ_id_md2 10
extern const unsigned char ossl_der_oid_id_md2[DER_OID_SZ_id_md2];
```

```
/*
* id-md5  OBJECT IDENTIFIER ::= {
*   iso(1) member-body(2) us(840) rsadsi(113549) digestAlgorithm(2) 5 }
*/
#define DER_OID_V_id_md5 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x02, 0x05
#define DER_OID_SZ_id_md5 10
extern const unsigned char ossl_der_oid_id_md5[DER_OID_SZ_id_md5];

/*
* id-sha256 OBJECT IDENTIFIER ::= { hashAlgs 1 }
*/
#define DER_OID_V_id_sha256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x01
#define DER_OID_SZ_id_sha256 11
extern const unsigned char ossl_der_oid_id_sha256[DER_OID_SZ_id_sha256];

/*
* id-sha384 OBJECT IDENTIFIER ::= { hashAlgs
 2 }
*/
#define DER_OID_V_id_sha384 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x02
#define DER_OID_SZ_id_sha384 11
extern const unsigned char ossl_der_oid_id_sha384[DER_OID_SZ_id_sha384];

/*
* id-sha512 OBJECT IDENTIFIER ::= { hashAlgs 3 }
*/
#define DER_OID_V_id_sha512 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x03
#define DER_OID_SZ_id_sha512 11
extern const unsigned char ossl_der_oid_id_sha512[DER_OID_SZ_id_sha512];

/*
* id-sha224 OBJECT IDENTIFIER ::= { hashAlgs 4 }
*/
#define DER_OID_V_id_sha224 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x04
#define DER_OID_SZ_id_sha224 11
extern const unsigned char ossl_der_oid_id_sha224[DER_OID_SZ_id_sha224];

/*
* id-sha512-224 OBJECT IDENTIFIER ::= { hashAlgs 5 }
*/
#define DER_OID_V_id_sha512_224 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x05
#define DER_OID_SZ_id_sha512_224 11
extern const unsigned char ossl_der_oid_id_sha512_224[DER_OID_SZ_id_sha512_224];

/*
 * id-sha512-256 OBJECT IDENTIFIER ::= { hashAlgs 6 }
*/
#define DER_OID_V_id_sha512_256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x06
```

```
#define DER_OID_SZ_id_sha512_256 11
extern const unsigned char ossl_der_oid_id_sha512_256[DER_OID_SZ_id_sha512_256];

/*
* id-sha3-224 OBJECT IDENTIFIER ::= { hashAlgs 7 }
*/
#define DER_OID_V_id_sha3_224 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x07
#define DER_OID_SZ_id_sha3_224 11
extern const unsigned char ossl_der_oid_id_sha3_224[DER_OID_SZ_id_sha3_224];

/*
* id-sha3-256 OBJECT IDENTIFIER ::= { hashAlgs 8 }
*/
#define DER_OID_V_id_sha3_256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x08
#define DER_OID_SZ_id_sha3_256 11
extern const unsigned char ossl_der_oid_id_sha3_256[DER_OID_SZ_id_sha3_256];

/*
* id-sha3-384 OBJECT IDENTIFIER ::= { hashAlgs 9 }
*/
#define DER_OID_V_id_sha3_384 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x09
#define
 DER_OID_SZ_id_sha3_384 11
extern const unsigned char ossl_der_oid_id_sha3_384[DER_OID_SZ_id_sha3_384];

/*
* id-sha3-512 OBJECT IDENTIFIER ::= { hashAlgs 10 }
*/
#define DER_OID_V_id_sha3_512 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x0A
#define DER_OID_SZ_id_sha3_512 11
extern const unsigned char ossl_der_oid_id_sha3_512[DER_OID_SZ_id_sha3_512];

/*
* id-shake128 OBJECT IDENTIFIER ::= { hashAlgs 11 }
*/
#define DER_OID_V_id_shake128 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x0B
#define DER_OID_SZ_id_shake128 11
extern const unsigned char ossl_der_oid_id_shake128[DER_OID_SZ_id_shake128];

/*
* id-shake256 OBJECT IDENTIFIER ::= { hashAlgs 12 }
*/
#define DER_OID_V_id_shake256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x0C
#define DER_OID_SZ_id_shake256 11
extern const unsigned char ossl_der_oid_id_shake256[DER_OID_SZ_id_shake256];

/*
* id-shake128-len OBJECT IDENTIFIER ::= { hashAlgs 17 }
```

```
*/
#define DER_OID_V_id_shake128_len
 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02, 0x11
#define DER_OID_SZ_id_shake128_len 11
extern const unsigned char ossl_der_oid_id_shake128_len[DER_OID_SZ_id_shake128_len];

/*
* id-shake256-len OBJECT IDENTIFIER ::= { hashAlgs 18 }
*/
#define DER_OID_V_id_shake256_len DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02,
0x12
#define DER_OID_SZ_id_shake256_len 11
extern const unsigned char ossl_der_oid_id_shake256_len[DER_OID_SZ_id_shake256_len];

/*
* id-KMACWithSHAKE128 OBJECT IDENTIFIER ::={hashAlgs 19}
*/
#define DER_OID_V_id_KMACWithSHAKE128 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x02, 0x13
#define DER_OID_SZ_id_KMACWithSHAKE128 11
extern const unsigned char ossl_der_oid_id_KMACWithSHAKE128[DER_OID_SZ_id_KMACWithSHAKE128];

/*
* id-KMACWithSHAKE256 OBJECT IDENTIFIER ::={ hashAlgs 20}
*/
#define DER_OID_V_id_KMACWithSHAKE256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x02, 0x14
#define
 DER_OID_SZ_id_KMACWithSHAKE256 11
extern const unsigned char ossl_der_oid_id_KMACWithSHAKE256[DER_OID_SZ_id_KMACWithSHAKE256];
```

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```
/*
* WARNING: do not edit!
* Generated by Makefile from providers/common/include/prov/der_ecx.h.in
*
```

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```
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*/

#include "internal/der.h"
#include "crypto/ecx.h"

/* Well known OIDs precompiled */

/*
* id-X25519       OBJECT IDENTIFIER ::= { id-edwards-curve-algs 110 }
*/
#define DER_OID_V_id_X25519 DER_P_OBJECT, 3, 0x2B, 0x65, 0x6E
#define DER_OID_SZ_id_X25519 5
extern const unsigned char ossl_der_oid_id_X25519[DER_OID_SZ_id_X25519];

/*
* id-X448         OBJECT IDENTIFIER ::= { id-edwards-curve-algs 111 }
*/
#define DER_OID_V_id_X448 DER_P_OBJECT, 3, 0x2B, 0x65, 0x6F
#define DER_OID_SZ_id_X448 5
extern const unsigned char ossl_der_oid_id_X448[DER_OID_SZ_id_X448];

/*
 * id-Ed25519      OBJECT IDENTIFIER ::= { id-edwards-curve-algs 112 }
*/
#define DER_OID_V_id_Ed25519 DER_P_OBJECT, 3, 0x2B, 0x65, 0x70
#define DER_OID_SZ_id_Ed25519 5
extern const unsigned char ossl_der_oid_id_Ed25519[DER_OID_SZ_id_Ed25519];

/*
* id-Ed448        OBJECT IDENTIFIER ::= { id-edwards-curve-algs 113 }
*/
#define DER_OID_V_id_Ed448 DER_P_OBJECT, 3, 0x2B, 0x65, 0x71
#define DER_OID_SZ_id_Ed448 5
extern const unsigned char ossl_der_oid_id_Ed448[DER_OID_SZ_id_Ed448];


int ossl_DER_w_algorithmIdentifier_ED25519(WPACKET *pkt, int cont, ECX_KEY *ec);
int ossl_DER_w_algorithmIdentifier_ED448(WPACKET *pkt, int cont, ECX_KEY *ec);
int ossl_DER_w_algorithmIdentifier_X25519(WPACKET *pkt, int cont, ECX_KEY *ec);
int ossl_DER_w_algorithmIdentifier_X448(WPACKET *pkt, int cont, ECX_KEY *ec);
```

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```
name: License update
on:
 schedule:
   # 00:00:00 every Monday
   # https://crontab.guru/#0_0_*_*_1
   - cron: 0 0 * * 1
 workflow_dispatch:

permissions:
 contents: read

jobs:
 update_license:
   permissions:
     contents: write  # for gr2m/create-or-update-pull-request-action to push local changes
     pull-requests: write  # for gr2m/create-or-update-pull-request-action to create a PR
   if: github.repository == 'nodejs/node'
   runs-on: ubuntu-latest
   steps:
     - uses: actions/checkout@11bd71901bbe5b1630ceea73d27597364c9af683  # v4.2.2
       with:
         persist-credentials: false
     - run: ./tools/license-builder.sh  # Run the license builder tool
     - uses: gr2m/create-or-update-pull-request-action@86ec1766034c8173518f61d2075cc2a173fb8c97  # v1.9.4
       # Creates a PR or update the Action's existing PR, or
       # no-op if the base branch is already up-to-date.
       env:
         GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
       with:

     author: Node.js GitHub Bot <github-bot@iojs.org>
         branch: actions/license-builder
         title: 'doc: run license-builder'
         body: >
           License is likely out of date. This is an automatically generated PR by
           the `license-builder.yml` GitHub Action, which runs `license-builder.sh`
           and submits a new PR or updates an existing PR.
         commit-message: 'doc: run license-builder'
```

labels: meta

A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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```
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/ssl.h.in
*
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_SSL_H
# define OPENSSL_SSL_H
# pragma once
```

```
# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_SSL_H
# endif

# include <openssl/e_os2.h>
# include <openssl/opensslconf.h>
# include <openssl/comp.h>
# include <openssl/bio.h>
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  include <openssl/x509.h>
#  include <openssl/crypto.h>
#  include <openssl/buffer.h>
# endif
# include <openssl/lhash.h>
# include <openssl/pem.h>
#
 include <openssl/hmac.h>
# include <openssl/async.h>

# include <openssl/safestack.h>
# include <openssl/symhacks.h>
# include <openssl/ct.h>
# include <openssl/sslerr.h>
# include <openssl/prov_ssl.h>

#ifdef  __cplusplus
extern "C" {
#endif

/* OpenSSL version number for ASN.1 encoding of the session information */
/*-
* Version 0 - initial version
* Version 1 - added the optional peer certificate
*/
# define SSL_SESSION_ASN1_VERSION 0x0001

# define SSL_MAX_SSL_SESSION_ID_LENGTH          32
# define SSL_MAX_SID_CTX_LENGTH                 32

# define SSL_MIN_RSA_MODULUS_LENGTH_IN_BYTES     (512/8)
# define SSL_MAX_KEY_ARG_LENGTH                 8
/* SSL_MAX_MASTER_KEY_LENGTH is defined in prov_ssl.h */

/* The maximum number of encrypt/decrypt pipelines we can support */
# define SSL_MAX_PIPELINES  32

/* text strings for the ciphers */
```

```
/* These are used to specify which ciphers to use and not to use */

# define SSL_TXT_LOW            "LOW"
# define SSL_TXT_MEDIUM
 "MEDIUM"
# define SSL_TXT_HIGH           "HIGH"
# define SSL_TXT_FIPS           "FIPS"

# define SSL_TXT_aNULL          "aNULL"
# define SSL_TXT_eNULL          "eNULL"
# define SSL_TXT_NULL           "NULL"

# define SSL_TXT_kRSA           "kRSA"
# define SSL_TXT_kDHr           "kDHr"/* this cipher class has been removed */
# define SSL_TXT_kDHd           "kDHd"/* this cipher class has been removed */
# define SSL_TXT_kDH            "kDH"/* this cipher class has been removed */
# define SSL_TXT_kEDH           "kEDH"/* alias for kDHE */
# define SSL_TXT_kDHE           "kDHE"
# define SSL_TXT_kECDHr         "kECDHr"/* this cipher class has been removed */
# define SSL_TXT_kECDHe         "kECDHe"/* this cipher class has been removed */
# define SSL_TXT_kECDH          "kECDH"/* this cipher class has been removed */
# define SSL_TXT_kEECDH         "kEECDH"/* alias for kECDHE */
# define SSL_TXT_kECDHE         "kECDHE"
# define SSL_TXT_kPSK           "kPSK"
# define SSL_TXT_kRSAPSK
        "kRSAPSK"
# define SSL_TXT_kECDHEPSK      "kECDHEPSK"
# define SSL_TXT_kDHEPSK        "kDHEPSK"
# define SSL_TXT_kGOST          "kGOST"
# define SSL_TXT_kGOST18        "kGOST18"
# define SSL_TXT_kSRP           "kSRP"

# define SSL_TXT_aRSA           "aRSA"
# define SSL_TXT_aDSS           "aDSS"
# define SSL_TXT_aDH            "aDH"/* this cipher class has been removed */
# define SSL_TXT_aECDH          "aECDH"/* this cipher class has been removed */
# define SSL_TXT_aECDSA         "aECDSA"
# define SSL_TXT_aPSK           "aPSK"
# define SSL_TXT_aGOST94        "aGOST94"
# define SSL_TXT_aGOST01        "aGOST01"
# define SSL_TXT_aGOST12        "aGOST12"
# define SSL_TXT_aGOST          "aGOST"
# define SSL_TXT_aSRP           "aSRP"

# define SSL_TXT_DSS            "DSS"
# define SSL_TXT_DH             "DH"
# define SSL_TXT_DHE            "DHE"/* same as "kDHE:-ADH" */
```

```
# define SSL_TXT_EDH            "EDH"/* alias for DHE */
# define SSL_TXT_ADH
    "ADH"
# define SSL_TXT_RSA            "RSA"
# define SSL_TXT_ECDH           "ECDH"
# define SSL_TXT_EECDH          "EECDH"/* alias for ECDHE" */
# define SSL_TXT_ECDHE          "ECDHE"/* same as "kECDHE:-AECDH" */
# define SSL_TXT_AECDH          "AECDH"
# define SSL_TXT_ECDSA          "ECDSA"
# define SSL_TXT_PSK            "PSK"
# define SSL_TXT_SRP            "SRP"

# define SSL_TXT_DES            "DES"
# define SSL_TXT_3DES           "3DES"
# define SSL_TXT_RC4            "RC4"
# define SSL_TXT_RC2            "RC2"
# define SSL_TXT_IDEA           "IDEA"
# define SSL_TXT_SEED           "SEED"
# define SSL_TXT_AES128         "AES128"
# define SSL_TXT_AES256         "AES256"
# define SSL_TXT_AES            "AES"
# define SSL_TXT_AES_GCM        "AESGCM"
# define SSL_TXT_AES_CCM        "AESCCM"
# define SSL_TXT_AES_CCM_8      "AESCCM8"
# define SSL_TXT_CAMELLIA128    "CAMELLIA128"
# define SSL_TXT_CAMELLIA256    "CAMELLIA256"
# define SSL_TXT_CAMELLIA       "CAMELLIA"
#
 define SSL_TXT_CHACHA20        "CHACHA20"
# define SSL_TXT_GOST           "GOST89"
# define SSL_TXT_ARIA           "ARIA"
# define SSL_TXT_ARIA_GCM       "ARIAGCM"
# define SSL_TXT_ARIA128        "ARIA128"
# define SSL_TXT_ARIA256        "ARIA256"
# define SSL_TXT_GOST2012_GOST8912_GOST8912 "GOST2012-GOST8912-GOST8912"
# define SSL_TXT_CBC            "CBC"

# define SSL_TXT_MD5            "MD5"
# define SSL_TXT_SHA1           "SHA1"
# define SSL_TXT_SHA            "SHA"/* same as "SHA1" */
# define SSL_TXT_GOST94         "GOST94"
# define SSL_TXT_GOST89MAC      "GOST89MAC"
# define SSL_TXT_GOST12         "GOST12"
# define SSL_TXT_GOST89MAC12    "GOST89MAC12"
# define SSL_TXT_SHA256         "SHA256"
# define SSL_TXT_SHA384         "SHA384"

# define SSL_TXT_SSLV3          "SSLv3"
```

```
# define SSL_TXT_TLSV1          "TLSv1"
# define SSL_TXT_TLSV1_1        "TLSv1.1"
# define SSL_TXT_TLSV1_2        "TLSv1.2"

# define SSL_TXT_ALL            "ALL"

/*-
* COMPLEMENTOF*
 definitions. These identifiers are used to (de-select)
* ciphers normally not being used.
* Example: "RC4" will activate all ciphers using RC4 including ciphers
* without authentication, which would normally disabled by DEFAULT (due
* the "!ADH" being part of default). Therefore "RC4:!COMPLEMENTOFDEFAULT"
* will make sure that it is also disabled in the specific selection.
* COMPLEMENTOF* identifiers are portable between version, as adjustments
* to the default cipher setup will also be included here.
*
* COMPLEMENTOFDEFAULT does not experience the same special treatment that
* DEFAULT gets, as only selection is being done and no sorting as needed
* for DEFAULT.
*/
# define SSL_TXT_CMPALL         "COMPLEMENTOFALL"
# define SSL_TXT_CMPDEF         "COMPLEMENTOFDEFAULT"

/*
* The following cipher list is used by default. It also is substituted when
* an application-defined cipher list string starts with 'DEFAULT'.
* This applies to ciphersuites for TLSv1.2 and below.
 * DEPRECATED IN 3.0.0, in favor of OSSL_default_cipher_list()
* Update both macro and function simultaneously
*/
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define SSL_DEFAULT_CIPHER_LIST "ALL:!COMPLEMENTOFDEFAULT:!eNULL"
/*
* This is the default set of TLSv1.3 ciphersuites
* DEPRECATED IN 3.0.0, in favor of OSSL_default_ciphersuites()
* Update both macro and function simultaneously
*/
#  define TLS_DEFAULT_CIPHERSUITES "TLS_AES_256_GCM_SHA384:" \
                                   "TLS_CHACHA20_POLY1305_SHA256:" \
                                   "TLS_AES_128_GCM_SHA256"
# endif
/*
* As of OpenSSL 1.0.0, ssl_create_cipher_list() in ssl/ssl_ciph.c always
* starts with a reasonable order, and all we have to do for DEFAULT is
* throwing out anonymous and unencrypted ciphersuites! (The latter are not
* actually enabled by ALL, but "ALL:RSA" would enable some of them.)
*/
```

```
/* Used in SSL_set_shutdown()/SSL_get_shutdown(); */
# define SSL_SENT_SHUTDOWN       1
# define SSL_RECEIVED_SHUTDOWN
   2

#ifdef __cplusplus
}
#endif

#ifdef  __cplusplus
extern "C" {
#endif

# define SSL_FILETYPE_ASN1       X509_FILETYPE_ASN1
# define SSL_FILETYPE_PEM        X509_FILETYPE_PEM

/*
* This is needed to stop compilers complaining about the 'struct ssl_st *'
* function parameters used to prototype callbacks in SSL_CTX.
*/
typedef struct ssl_st *ssl_crock_st;
typedef struct tls_session_ticket_ext_st TLS_SESSION_TICKET_EXT;
typedef struct ssl_method_st SSL_METHOD;
typedef struct ssl_cipher_st SSL_CIPHER;
typedef struct ssl_session_st SSL_SESSION;
typedef struct tls_sigalgs_st TLS_SIGALGS;
typedef struct ssl_conf_ctx_st SSL_CONF_CTX;
typedef struct ssl_comp_st SSL_COMP;

STACK_OF(SSL_CIPHER);
STACK_OF(SSL_COMP);

/* SRTP protection profiles for use with the use_srtp extension (RFC 5764)*/
typedef struct srtp_protection_profile_st {
   const char *name;
   unsigned long id;
} SRTP_PROTECTION_PROFILE;
SKM_DEFINE_STACK_OF_INTERNAL(SRTP_PROTECTION_PROFILE, SRTP_PROTECTION_PROFILE,
 SRTP_PROTECTION_PROFILE)
#define sk_SRTP_PROTECTION_PROFILE_num(sk)
OPENSSL_sk_num(ossl_check_const_SRTP_PROTECTION_PROFILE_sk_type(sk))
#define sk_SRTP_PROTECTION_PROFILE_value(sk, idx) ((SRTP_PROTECTION_PROFILE
*)OPENSSL_sk_value(ossl_check_const_SRTP_PROTECTION_PROFILE_sk_type(sk), (idx)))
#define sk_SRTP_PROTECTION_PROFILE_new(cmp) ((STACK_OF(SRTP_PROTECTION_PROFILE)
*)OPENSSL_sk_new(ossl_check_SRTP_PROTECTION_PROFILE_compfunc_type(cmp)))
#define sk_SRTP_PROTECTION_PROFILE_new_null() ((STACK_OF(SRTP_PROTECTION_PROFILE)
*)OPENSSL_sk_new_null())
```

```
#define sk_SRTP_PROTECTION_PROFILE_new_reserve(cmp, n)
((STACK_OF(SRTP_PROTECTION_PROFILE)
*)OPENSSL_sk_new_reserve(ossl_check_SRTP_PROTECTION_PROFILE_compfunc_type(cmp), (n)))
#define sk_SRTP_PROTECTION_PROFILE_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk), (n))
#define sk_SRTP_PROTECTION_PROFILE_free(sk)
OPENSSL_sk_free(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk))
#define sk_SRTP_PROTECTION_PROFILE_zero(sk)
 OPENSSL_sk_zero(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk))
#define sk_SRTP_PROTECTION_PROFILE_delete(sk, i) ((SRTP_PROTECTION_PROFILE
*)OPENSSL_sk_delete(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk), (i)))
#define sk_SRTP_PROTECTION_PROFILE_delete_ptr(sk, ptr) ((SRTP_PROTECTION_PROFILE
*)OPENSSL_sk_delete_ptr(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk),
ossl_check_SRTP_PROTECTION_PROFILE_type(ptr)))
#define sk_SRTP_PROTECTION_PROFILE_push(sk, ptr)
OPENSSL_sk_push(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk),
ossl_check_SRTP_PROTECTION_PROFILE_type(ptr))
#define sk_SRTP_PROTECTION_PROFILE_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk),
ossl_check_SRTP_PROTECTION_PROFILE_type(ptr))
#define sk_SRTP_PROTECTION_PROFILE_pop(sk) ((SRTP_PROTECTION_PROFILE
*)OPENSSL_sk_pop(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk)))
#define sk_SRTP_PROTECTION_PROFILE_shift(sk) ((SRTP_PROTECTION_PROFILE
*)OPENSSL_sk_shift(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk)))
#define
 sk_SRTP_PROTECTION_PROFILE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk),ossl_check_SRTP_PROTECTI
ON_PROFILE_freefunc_type(freefunc))
#define sk_SRTP_PROTECTION_PROFILE_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk),
ossl_check_SRTP_PROTECTION_PROFILE_type(ptr), (idx))
#define sk_SRTP_PROTECTION_PROFILE_set(sk, idx, ptr) ((SRTP_PROTECTION_PROFILE
*)OPENSSL_sk_set(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk), (idx),
ossl_check_SRTP_PROTECTION_PROFILE_type(ptr)))
#define sk_SRTP_PROTECTION_PROFILE_find(sk, ptr)
OPENSSL_sk_find(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk),
ossl_check_SRTP_PROTECTION_PROFILE_type(ptr))
#define sk_SRTP_PROTECTION_PROFILE_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk),
ossl_check_SRTP_PROTECTION_PROFILE_type(ptr))
#define sk_SRTP_PROTECTION_PROFILE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk),
 ossl_check_SRTP_PROTECTION_PROFILE_type(ptr), pnum)
#define sk_SRTP_PROTECTION_PROFILE_sort(sk)
OPENSSL_sk_sort(ossl_check_SRTP_PROTECTION_PROFILE_sk_type(sk))
#define sk_SRTP_PROTECTION_PROFILE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_SRTP_PROTECTION_PROFILE_sk_type(sk))
#define sk_SRTP_PROTECTION_PROFILE_dup(sk) ((STACK_OF(SRTP_PROTECTION_PROFILE)
```

```
*)OPENSSL_sk_dup(ossl_check_const_SRTP_PROTECTION_PROFILE_sk_type(sk)))
#define sk_SRTP_PROTECTION_PROFILE_deep_copy(sk, copyfunc, freefunc)
((STACK_OF(SRTP_PROTECTION_PROFILE)
*)OPENSSL_sk_deep_copy(ossl_check_const_SRTP_PROTECTION_PROFILE_sk_type(sk),
ossl_check_SRTP_PROTECTION_PROFILE_copyfunc_type(copyfunc),
ossl_check_SRTP_PROTECTION_PROFILE_freefunc_type(freefunc)))
#define sk_SRTP_PROTECTION_PROFILE_set_cmp_func(sk, cmp)
((sk_SRTP_PROTECTION_PROFILE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_SRTP_PROTECTION
_PROFILE_sk_type(sk), ossl_check_SRTP_PROTECTION_PROFILE_compfunc_type(cmp)))



typedef int
 (*tls_session_ticket_ext_cb_fn)(SSL *s, const unsigned char *data,
                                 int len, void *arg);
typedef int (*tls_session_secret_cb_fn)(SSL *s, void *secret, int *secret_len,
                                STACK_OF(SSL_CIPHER) *peer_ciphers,
                                const SSL_CIPHER **cipher, void *arg);

/* Extension context codes */
/* This extension is only allowed in TLS */
#define SSL_EXT_TLS_ONLY                    0x0001
/* This extension is only allowed in DTLS */
#define SSL_EXT_DTLS_ONLY                   0x0002
/* Some extensions may be allowed in DTLS but we don't implement them for it */
#define SSL_EXT_TLS_IMPLEMENTATION_ONLY     0x0004
/* Most extensions are not defined for SSLv3 but EXT_TYPE_renegotiate is */
#define SSL_EXT_SSL3_ALLOWED                0x0008
/* Extension is only defined for TLS1.2 and below */
#define SSL_EXT_TLS1_2_AND_BELOW_ONLY       0x0010
/* Extension is only defined
 for TLS1.3 and above */
#define SSL_EXT_TLS1_3_ONLY                 0x0020
/* Ignore this extension during parsing if we are resuming */
#define SSL_EXT_IGNORE_ON_RESUMPTION        0x0040
#define SSL_EXT_CLIENT_HELLO                0x0080
/* Really means TLS1.2 or below */
#define SSL_EXT_TLS1_2_SERVER_HELLO         0x0100
#define SSL_EXT_TLS1_3_SERVER_HELLO         0x0200
#define SSL_EXT_TLS1_3_ENCRYPTED_EXTENSIONS     0x0400
#define SSL_EXT_TLS1_3_HELLO_RETRY_REQUEST      0x0800
#define SSL_EXT_TLS1_3_CERTIFICATE          0x1000
#define SSL_EXT_TLS1_3_NEW_SESSION_TICKET       0x2000
#define SSL_EXT_TLS1_3_CERTIFICATE_REQUEST      0x4000

/* Typedefs for handling custom extensions */

typedef int (*custom_ext_add_cb)(SSL *s, unsigned int ext_type,
```

```
                        const unsigned char **out, size_t *outlen,
                        int *al, void *add_arg);

typedef void (*custom_ext_free_cb)(SSL *s, unsigned int ext_type,

                    const unsigned char *out, void *add_arg);

typedef int (*custom_ext_parse_cb)(SSL *s, unsigned int ext_type,
                            const unsigned char *in, size_t inlen,
                            int *al, void *parse_arg);


typedef int (*SSL_custom_ext_add_cb_ex)(SSL *s, unsigned int ext_type,
                                unsigned int context,
                                const unsigned char **out,
                                size_t *outlen, X509 *x,
                                size_t chainidx,
                                int *al, void *add_arg);

typedef void (*SSL_custom_ext_free_cb_ex)(SSL *s, unsigned int ext_type,
                                  unsigned int context,
                                  const unsigned char *out,
                                  void *add_arg);

typedef int (*SSL_custom_ext_parse_cb_ex)(SSL *s, unsigned int ext_type,

                              unsigned int context,
                                  const unsigned char *in,
                                  size_t inlen, X509 *x,
                                  size_t chainidx,
                                  int *al, void *parse_arg);

/* Typedef for verification callback */
typedef int (*SSL_verify_cb)(int preverify_ok, X509_STORE_CTX *x509_ctx);

/* Typedef for SSL async callback */
typedef int (*SSL_async_callback_fn)(SSL *s, void *arg);

#define SSL_OP_BIT(n)  ((uint64_t)1 << (uint64_t)n)

/*
* SSL/TLS connection options.
*/
   /* Disable Extended master secret */
# define SSL_OP_NO_EXTENDED_MASTER_SECRET              SSL_OP_BIT(0)
   /* Cleanse plaintext copies of data delivered to the application */
# define SSL_OP_CLEANSE_PLAINTEXT                      SSL_OP_BIT(1)
   /* Allow initial connection to servers that don't support RI */
```

```
# define SSL_OP_LEGACY_SERVER_CONNECT                    SSL_OP_BIT(2)
    /* Enable support for Kernel TLS */
# define SSL_OP_ENABLE_KTLS                              SSL_OP_BIT(3)
# define SSL_OP_TLSEXT_PADDING                           SSL_OP_BIT(4)
# define SSL_OP_SAFARI_ECDHE_ECDSA_BUG                   SSL_OP_BIT(6)
# define SSL_OP_IGNORE_UNEXPECTED_EOF                    SSL_OP_BIT(7)
# define SSL_OP_ALLOW_CLIENT_RENEGOTIATION               SSL_OP_BIT(8)
# define SSL_OP_DISABLE_TLSEXT_CA_NAMES                  SSL_OP_BIT(9)
   /* In TLSv1.3 allow a non-(ec)dhe based kex_mode */
# define SSL_OP_ALLOW_NO_DHE_KEX                         SSL_OP_BIT(10)
   /*
    * Disable SSL 3.0/TLS 1.0 CBC vulnerability workaround that was added
    * in OpenSSL 0.9.6d.  Usually (depending on the application protocol)
    * the workaround is not needed.  Unfortunately some broken SSL/TLS
    * implementations cannot handle it at all, which is why we include it
    * in SSL_OP_ALL. Added in 0.9.6e
    */
# define SSL_OP_DONT_INSERT_EMPTY_FRAGMENTS
            SSL_OP_BIT(11)
   /* DTLS options */
# define SSL_OP_NO_QUERY_MTU                             SSL_OP_BIT(12)
   /* Turn on Cookie Exchange (on relevant for servers) */
# define SSL_OP_COOKIE_EXCHANGE                          SSL_OP_BIT(13)
   /* Don't use RFC4507 ticket extension */
# define SSL_OP_NO_TICKET                                SSL_OP_BIT(14)
# ifndef OPENSSL_NO_DTLS1_METHOD
   /*
    * Use Cisco's version identifier of DTLS_BAD_VER
    * (only with deprecated DTLSv1_client_method())
    */
#  define SSL_OP_CISCO_ANYCONNECT                        SSL_OP_BIT(15)
# endif
   /* As server, disallow session resumption on renegotiation */
# define SSL_OP_NO_SESSION_RESUMPTION_ON_RENEGOTIATION   SSL_OP_BIT(16)
   /* Don't use compression even if supported */
# define SSL_OP_NO_COMPRESSION                           SSL_OP_BIT(17)
   /* Permit unsafe legacy renegotiation */
# define SSL_OP_ALLOW_UNSAFE_LEGACY_RENEGOTIATION        SSL_OP_BIT(18)
   /* Disable
 encrypt-then-mac */
# define SSL_OP_NO_ENCRYPT_THEN_MAC                      SSL_OP_BIT(19)
   /*
    * Enable TLSv1.3 Compatibility mode. This is on by default. A future
    * version of OpenSSL may have this disabled by default.
    */
# define SSL_OP_ENABLE_MIDDLEBOX_COMPAT                  SSL_OP_BIT(20)
   /*
    * Prioritize Chacha20Poly1305 when client does.
```

```
    * Modifies SSL_OP_CIPHER_SERVER_PREFERENCE
    */
# define SSL_OP_PRIORITIZE_CHACHA                    SSL_OP_BIT(21)
    /*
    * Set on servers to choose the cipher according to server's preferences.
    */
# define SSL_OP_CIPHER_SERVER_PREFERENCE               SSL_OP_BIT(22)
    /*
    * If set, a server will allow a client to issue a SSLv3.0 version
    * number as latest version supported in the premaster secret, even when
    * TLSv1.0 (version 3.1) was announced in the client hello. Normally
    * this is forbidden to prevent version rollback attacks.
    */
# define SSL_OP_TLS_ROLLBACK_BUG
                    SSL_OP_BIT(23)
    /*
    * Switches off automatic TLSv1.3 anti-replay protection for early data.
    * This is a server-side option only (no effect on the client).
    */
# define SSL_OP_NO_ANTI_REPLAY                       SSL_OP_BIT(24)
# define SSL_OP_NO_SSLv3                             SSL_OP_BIT(25)
# define SSL_OP_NO_TLSv1                             SSL_OP_BIT(26)
# define SSL_OP_NO_TLSv1_2                           SSL_OP_BIT(27)
# define SSL_OP_NO_TLSv1_1                           SSL_OP_BIT(28)
# define SSL_OP_NO_TLSv1_3                           SSL_OP_BIT(29)
# define SSL_OP_NO_DTLSv1                            SSL_OP_BIT(26)
# define SSL_OP_NO_DTLSv1_2                          SSL_OP_BIT(27)
    /* Disallow all renegotiation */
# define SSL_OP_NO_RENEGOTIATION                     SSL_OP_BIT(30)
    /*
    * Make server add server-hello extension from early version of
    * cryptopro draft, when GOST ciphersuite
  is negotiated. Required for
    * interoperability with CryptoPro CSP 3.x
    */
# define SSL_OP_CRYPTOPRO_TLSEXT_BUG                 SSL_OP_BIT(31)

/*
* Option "collections."
*/
# define SSL_OP_NO_SSL_MASK \
        ( SSL_OP_NO_SSLv3 | SSL_OP_NO_TLSv1 | SSL_OP_NO_TLSv1_1 \
          | SSL_OP_NO_TLSv1_2 | SSL_OP_NO_TLSv1_3 )
# define SSL_OP_NO_DTLS_MASK \
        ( SSL_OP_NO_DTLSv1 | SSL_OP_NO_DTLSv1_2 )

/* Various bug workarounds that should be rather harmless. */
# define SSL_OP_ALL \
```

```
    ( SSL_OP_CRYPTOPRO_TLSEXT_BUG | SSL_OP_DONT_INSERT_EMPTY_FRAGMENTS \
      | SSL_OP_TLSEXT_PADDING | SSL_OP_SAFARI_ECDHE_ECDSA_BUG )

/*
* OBSOLETE OPTIONS retained for compatibility
*/

# define SSL_OP_MICROSOFT_SESS_ID_BUG                    0x0
# define SSL_OP_NETSCAPE_CHALLENGE_BUG                   0x0
# define SSL_OP_NETSCAPE_REUSE_CIPHER_CHANGE_BUG         0x0
# define SSL_OP_SSLREF2_REUSE_CERT_TYPE_BUG              0x0
# define SSL_OP_MICROSOFT_BIG_SSLV3_BUFFER
      0x0
# define SSL_OP_MSIE_SSLV2_RSA_PADDING                   0x0
# define SSL_OP_SSLEAY_080_CLIENT_DH_BUG                 0x0
# define SSL_OP_TLS_D5_BUG                               0x0
# define SSL_OP_TLS_BLOCK_PADDING_BUG                    0x0
# define SSL_OP_SINGLE_ECDH_USE                          0x0
# define SSL_OP_SINGLE_DH_USE                            0x0
# define SSL_OP_EPHEMERAL_RSA                            0x0
# define SSL_OP_NO_SSLv2                                 0x0
# define SSL_OP_PKCS1_CHECK_1                            0x0
# define SSL_OP_PKCS1_CHECK_2                            0x0
# define SSL_OP_NETSCAPE_CA_DN_BUG                       0x0
# define SSL_OP_NETSCAPE_DEMO_CIPHER_CHANGE_BUG          0x0

/*
* Allow SSL_write(..., n) to return r with 0 < r < n (i.e. report success
* when just a single record has been written):
*/
# define SSL_MODE_ENABLE_PARTIAL_WRITE       0x00000001U
/*
* Make it possible to retry SSL_write() with changed buffer location
 (buffer
* contents must stay the same!); this is not the default to avoid the
* misconception that non-blocking SSL_write() behaves like non-blocking
* write():
*/
# define SSL_MODE_ACCEPT_MOVING_WRITE_BUFFER 0x00000002U
/*
* Never bother the application with retries if the transport is blocking:
*/
# define SSL_MODE_AUTO_RETRY 0x00000004U
/* Don't attempt to automatically build certificate chain */
# define SSL_MODE_NO_AUTO_CHAIN 0x00000008U
/*
* Save RAM by releasing read and write buffers when they're empty. (SSL3 and
* TLS only.) Released buffers are freed.
```

```
*/
# define SSL_MODE_RELEASE_BUFFERS 0x00000010U
/*
* Send the current time in the Random fields of the ClientHello and
* ServerHello records for compatibility with hypothetical implementations
* that require it.
*/
# define SSL_MODE_SEND_CLIENTHELLO_TIME 0x00000020U
# define SSL_MODE_SEND_SERVERHELLO_TIME 0x00000040U
/*
* Send TLS_FALLBACK_SCSV in the ClientHello. To be set only by applications
* that reconnect
 with a downgraded protocol version; see
* draft-ietf-tls-downgrade-scsv-00 for details. DO NOT ENABLE THIS if your
* application attempts a normal handshake. Only use this in explicit
* fallback retries, following the guidance in
* draft-ietf-tls-downgrade-scsv-00.
*/
# define SSL_MODE_SEND_FALLBACK_SCSV 0x00000080U
/*
* Support Asynchronous operation
*/
# define SSL_MODE_ASYNC 0x00000100U

/*
* When using DTLS/SCTP, include the terminating zero in the label
* used for computing the endpoint-pair shared secret. Required for
* interoperability with implementations having this bug like these
* older version of OpenSSL:
* - OpenSSL 1.0.0 series
* - OpenSSL 1.0.1 series
* - OpenSSL 1.0.2 series
* - OpenSSL 1.1.0 series
* - OpenSSL 1.1.1 and 1.1.1a
*/
# define SSL_MODE_DTLS_SCTP_LABEL_LENGTH_BUG 0x00000400U

/* Cert related flags */
/*
* Many implementations ignore some aspects of the TLS standards such as
* enforcing certificate chain algorithms. When this is set we enforce
 them.
*/
# define SSL_CERT_FLAG_TLS_STRICT               0x00000001U

/* Suite B modes, takes same values as certificate verify flags */
# define SSL_CERT_FLAG_SUITEB_128_LOS_ONLY       0x10000
/* Suite B 192 bit only mode */
```

```
# define SSL_CERT_FLAG_SUITEB_192_LOS           0x20000
/* Suite B 128 bit mode allowing 192 bit algorithms */
# define SSL_CERT_FLAG_SUITEB_128_LOS           0x30000

/* Perform all sorts of protocol violations for testing purposes */
# define SSL_CERT_FLAG_BROKEN_PROTOCOL          0x10000000

/* Flags for building certificate chains */
/* Treat any existing certificates as untrusted CAs */
# define SSL_BUILD_CHAIN_FLAG_UNTRUSTED         0x1
/* Don't include root CA in chain */
# define SSL_BUILD_CHAIN_FLAG_NO_ROOT           0x2
/* Just check certificates already there */
# define SSL_BUILD_CHAIN_FLAG_CHECK             0x4
/* Ignore verification errors */
# define SSL_BUILD_CHAIN_FLAG_IGNORE_ERROR      0x8
/* Clear verification errors from queue */
#
 define SSL_BUILD_CHAIN_FLAG_CLEAR_ERROR        0x10

/* Flags returned by SSL_check_chain */
/* Certificate can be used with this session */
# define CERT_PKEY_VALID         0x1
/* Certificate can also be used for signing */
# define CERT_PKEY_SIGN          0x2
/* EE certificate signing algorithm OK */
# define CERT_PKEY_EE_SIGNATURE  0x10
/* CA signature algorithms OK */
# define CERT_PKEY_CA_SIGNATURE  0x20
/* EE certificate parameters OK */
# define CERT_PKEY_EE_PARAM      0x40
/* CA certificate parameters OK */
# define CERT_PKEY_CA_PARAM      0x80
/* Signing explicitly allowed as opposed to SHA1 fallback */
# define CERT_PKEY_EXPLICIT_SIGN 0x100
/* Client CA issuer names match (always set for server cert) */
# define CERT_PKEY_ISSUER_NAME   0x200
/* Cert type matches client types (always set for server cert) */
# define CERT_PKEY_CERT_TYPE     0x400
/* Cert chain suitable to Suite B */
# define CERT_PKEY_SUITEB        0x800

# define SSL_CONF_FLAG_CMDLINE          0x1
# define
 SSL_CONF_FLAG_FILE            0x2
# define SSL_CONF_FLAG_CLIENT           0x4
# define SSL_CONF_FLAG_SERVER           0x8
# define SSL_CONF_FLAG_SHOW_ERRORS      0x10
```

```
# define SSL_CONF_FLAG_CERTIFICATE       0x20
# define SSL_CONF_FLAG_REQUIRE_PRIVATE   0x40
/* Configuration value types */
# define SSL_CONF_TYPE_UNKNOWN           0x0
# define SSL_CONF_TYPE_STRING            0x1
# define SSL_CONF_TYPE_FILE              0x2
# define SSL_CONF_TYPE_DIR               0x3
# define SSL_CONF_TYPE_NONE              0x4
# define SSL_CONF_TYPE_STORE             0x5

/* Maximum length of the application-controlled segment of a a TLSv1.3 cookie */
# define SSL_COOKIE_LENGTH                     4096

/*
* Note: SSL[_CTX]_set_{options,mode} use |= op on the previous value, they
* cannot be used to clear bits.
*/

uint64_t SSL_CTX_get_options(const SSL_CTX *ctx);
uint64_t SSL_get_options(const SSL *s);
uint64_t SSL_CTX_clear_options(SSL_CTX *ctx, uint64_t op);
uint64_t SSL_clear_options(SSL
 *s, uint64_t op);
uint64_t SSL_CTX_set_options(SSL_CTX *ctx, uint64_t op);
uint64_t SSL_set_options(SSL *s, uint64_t op);

# define SSL_CTX_set_mode(ctx,op) \
      SSL_CTX_ctrl((ctx),SSL_CTRL_MODE,(op),NULL)
# define SSL_CTX_clear_mode(ctx,op) \
      SSL_CTX_ctrl((ctx),SSL_CTRL_CLEAR_MODE,(op),NULL)
# define SSL_CTX_get_mode(ctx) \
      SSL_CTX_ctrl((ctx),SSL_CTRL_MODE,0,NULL)
# define SSL_clear_mode(ssl,op) \
      SSL_ctrl((ssl),SSL_CTRL_CLEAR_MODE,(op),NULL)
# define SSL_set_mode(ssl,op) \
      SSL_ctrl((ssl),SSL_CTRL_MODE,(op),NULL)
# define SSL_get_mode(ssl) \
      SSL_ctrl((ssl),SSL_CTRL_MODE,0,NULL)
# define SSL_set_mtu(ssl, mtu) \
      SSL_ctrl((ssl),SSL_CTRL_SET_MTU,(mtu),NULL)
# define DTLS_set_link_mtu(ssl, mtu) \
      SSL_ctrl((ssl),DTLS_CTRL_SET_LINK_MTU,(mtu),NULL)
# define DTLS_get_link_min_mtu(ssl) \
      SSL_ctrl((ssl),DTLS_CTRL_GET_LINK_MIN_MTU,0,NULL)

# define SSL_get_secure_renegotiation_support(ssl) \
      SSL_ctrl((ssl), SSL_CTRL_GET_RI_SUPPORT,
```

```
 0, NULL)

# define SSL_CTX_set_cert_flags(ctx,op) \
      SSL_CTX_ctrl((ctx),SSL_CTRL_CERT_FLAGS,(op),NULL)
# define SSL_set_cert_flags(s,op) \
      SSL_ctrl((s),SSL_CTRL_CERT_FLAGS,(op),NULL)
# define SSL_CTX_clear_cert_flags(ctx,op) \
      SSL_CTX_ctrl((ctx),SSL_CTRL_CLEAR_CERT_FLAGS,(op),NULL)
# define SSL_clear_cert_flags(s,op) \
      SSL_ctrl((s),SSL_CTRL_CLEAR_CERT_FLAGS,(op),NULL)

void SSL_CTX_set_msg_callback(SSL_CTX *ctx,
                        void (*cb) (int write_p, int version,
                                    int content_type, const void *buf,
                                    size_t len, SSL *ssl, void *arg));
void SSL_set_msg_callback(SSL *ssl,
                     void (*cb) (int write_p, int version,
                                 int content_type, const void *buf,
                                 size_t len, SSL *ssl, void *arg));
# define SSL_CTX_set_msg_callback_arg(ctx, arg) SSL_CTX_ctrl((ctx),
SSL_CTRL_SET_MSG_CALLBACK_ARG,
 0, (arg))
# define SSL_set_msg_callback_arg(ssl, arg) SSL_ctrl((ssl), SSL_CTRL_SET_MSG_CALLBACK_ARG, 0, (arg))

# define SSL_get_extms_support(s) \
      SSL_ctrl((s),SSL_CTRL_GET_EXTMS_SUPPORT,0,NULL)

# ifndef OPENSSL_NO_SRP
/* see tls_srp.c */
#  ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 __owur int SSL_SRP_CTX_init(SSL *s);
OSSL_DEPRECATEDIN_3_0 __owur int SSL_CTX_SRP_CTX_init(SSL_CTX *ctx);
OSSL_DEPRECATEDIN_3_0 int SSL_SRP_CTX_free(SSL *ctx);
OSSL_DEPRECATEDIN_3_0 int SSL_CTX_SRP_CTX_free(SSL_CTX *ctx);
OSSL_DEPRECATEDIN_3_0 __owur int SSL_srp_server_param_with_username(SSL *s,
                                          int *ad);
OSSL_DEPRECATEDIN_3_0 __owur int SRP_Calc_A_param(SSL *s);
#  endif
# endif

/* 100k max cert list */
# define SSL_MAX_CERT_LIST_DEFAULT (1024*100)

# define SSL_SESSION_CACHE_MAX_SIZE_DEFAULT      (1024*20)

/*
* This callback type is used inside SSL_CTX, SSL, and in the functions that
```

```
 * set them. It is used to override the generation of SSL/TLS session IDs in
* a server. Return value should be zero on an error, non-zero to proceed.
* Also, callbacks should themselves check if the id they generate is unique
* otherwise the SSL handshake will fail with an error - callbacks can do
* this using the 'ssl' value they're passed by;
* SSL_has_matching_session_id(ssl, id, *id_len) The length value passed in
* is set at the maximum size the session ID can be. In SSLv3/TLSv1 it is 32
* bytes. The callback can alter this length to be less if desired. It is
* also an error for the callback to set the size to zero.
*/
typedef int (*GEN_SESSION_CB) (SSL *ssl, unsigned char *id,
                               unsigned int *id_len);

# define SSL_SESS_CACHE_OFF                      0x0000
# define SSL_SESS_CACHE_CLIENT                   0x0001
# define SSL_SESS_CACHE_SERVER                   0x0002
# define SSL_SESS_CACHE_BOTH     (SSL_SESS_CACHE_CLIENT|SSL_SESS_CACHE_SERVER)
#
 define SSL_SESS_CACHE_NO_AUTO_CLEAR            0x0080
/* enough comments already ... see SSL_CTX_set_session_cache_mode(3) */
# define SSL_SESS_CACHE_NO_INTERNAL_LOOKUP       0x0100
# define SSL_SESS_CACHE_NO_INTERNAL_STORE        0x0200
# define SSL_SESS_CACHE_NO_INTERNAL \
      (SSL_SESS_CACHE_NO_INTERNAL_LOOKUP|SSL_SESS_CACHE_NO_INTERNAL_STORE)
# define SSL_SESS_CACHE_UPDATE_TIME              0x0400

LHASH_OF(SSL_SESSION) *SSL_CTX_sessions(SSL_CTX *ctx);
# define SSL_CTX_sess_number(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_NUMBER,0,NULL)
# define SSL_CTX_sess_connect(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_CONNECT,0,NULL)
# define SSL_CTX_sess_connect_good(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_CONNECT_GOOD,0,NULL)
# define SSL_CTX_sess_connect_renegotiate(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_CONNECT_RENEGOTIATE,0,NULL)
# define SSL_CTX_sess_accept(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_ACCEPT,0,NULL)
# define SSL_CTX_sess_accept_renegotiate(ctx)
 \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_ACCEPT_RENEGOTIATE,0,NULL)
# define SSL_CTX_sess_accept_good(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_ACCEPT_GOOD,0,NULL)
# define SSL_CTX_sess_hits(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_HIT,0,NULL)
# define SSL_CTX_sess_cb_hits(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_CB_HIT,0,NULL)
# define SSL_CTX_sess_misses(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_MISSES,0,NULL)
```

```
# define SSL_CTX_sess_timeouts(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_TIMEOUTS,0,NULL)
# define SSL_CTX_sess_cache_full(ctx) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SESS_CACHE_FULL,0,NULL)

void SSL_CTX_sess_set_new_cb(SSL_CTX *ctx,
                        int (*new_session_cb) (struct ssl_st *ssl,
                                               SSL_SESSION *sess));
int (*SSL_CTX_sess_get_new_cb(SSL_CTX *ctx)) (struct ssl_st *ssl,
                                              SSL_SESSION *sess);
void SSL_CTX_sess_set_remove_cb(SSL_CTX *ctx,
                        void (*remove_session_cb) (struct ssl_ctx_st
                                                   *ctx,
                                                   SSL_SESSION *sess));
void (*SSL_CTX_sess_get_remove_cb(SSL_CTX *ctx)) (struct ssl_ctx_st *ctx,
                                              SSL_SESSION *sess);
void SSL_CTX_sess_set_get_cb(SSL_CTX *ctx,
                        SSL_SESSION *(*get_session_cb) (struct ssl_st
                                                        *ssl,
                                                        const unsigned char
                                                        *data, int len,
                                                        int *copy));
SSL_SESSION *(*SSL_CTX_sess_get_get_cb(SSL_CTX *ctx)) (struct ssl_st *ssl,
                                       const unsigned char *data,
                                       int len,
 int *copy);
void SSL_CTX_set_info_callback(SSL_CTX *ctx,
                        void (*cb) (const SSL *ssl, int type, int val));
void (*SSL_CTX_get_info_callback(SSL_CTX *ctx)) (const SSL *ssl, int type,
                                              int val);
void SSL_CTX_set_client_cert_cb(SSL_CTX *ctx,
                        int (*client_cert_cb) (SSL *ssl, X509 **x509,
                                               EVP_PKEY **pkey));
int (*SSL_CTX_get_client_cert_cb(SSL_CTX *ctx)) (SSL *ssl, X509 **x509,
                                              EVP_PKEY **pkey);
# ifndef OPENSSL_NO_ENGINE
__owur int SSL_CTX_set_client_cert_engine(SSL_CTX *ctx, ENGINE *e);
# endif
void SSL_CTX_set_cookie_generate_cb(SSL_CTX *ctx,
                        int (*app_gen_cookie_cb) (SSL *ssl,
                                                  unsigned char
                                                  *cookie,

                                              unsigned int
                                                  *cookie_len));
void SSL_CTX_set_cookie_verify_cb(SSL_CTX *ctx,
                        int (*app_verify_cookie_cb) (SSL *ssl,
                                                     const unsigned
```

```
                                        char *cookie,
                                        unsigned int
                                        cookie_len));

void SSL_CTX_set_stateless_cookie_generate_cb(
  SSL_CTX *ctx,
  int (*gen_stateless_cookie_cb) (SSL *ssl,
                                  unsigned char *cookie,
                                  size_t *cookie_len));
void SSL_CTX_set_stateless_cookie_verify_cb(
  SSL_CTX *ctx,
  int (*verify_stateless_cookie_cb) (SSL *ssl,
                                     const unsigned char *cookie,

                size_t cookie_len));
# ifndef OPENSSL_NO_NEXTPROTONEG

typedef int (*SSL_CTX_npn_advertised_cb_func)(SSL *ssl,
                                              const unsigned char **out,
                                              unsigned int *outlen,
                                              void *arg);
void SSL_CTX_set_next_protos_advertised_cb(SSL_CTX *s,
                                           SSL_CTX_npn_advertised_cb_func cb,
                                           void *arg);
#  define SSL_CTX_set_npn_advertised_cb SSL_CTX_set_next_protos_advertised_cb

typedef int (*SSL_CTX_npn_select_cb_func)(SSL *s,
                                          unsigned char **out,
                                          unsigned char *outlen,
                                          const unsigned char *in,
                                          unsigned int inlen,
                                          void *arg);
void SSL_CTX_set_next_proto_select_cb(SSL_CTX *s,
                                      SSL_CTX_npn_select_cb_func cb,
                                      void *arg);
#  define SSL_CTX_set_npn_select_cb SSL_CTX_set_next_proto_select_cb

void SSL_get0_next_proto_negotiated(const SSL *s, const unsigned char **data,
                                    unsigned *len);
#  define SSL_get0_npn_negotiated SSL_get0_next_proto_negotiated
# endif

__owur int SSL_select_next_proto(unsigned char **out, unsigned char *outlen,
                                 const unsigned char *in, unsigned int inlen,
                                 const unsigned char *client,
                                 unsigned int client_len);

# define OPENSSL_NPN_UNSUPPORTED 0
```

```
# define OPENSSL_NPN_NEGOTIATED  1
# define OPENSSL_NPN_NO_OVERLAP  2

__owur int SSL_CTX_set_alpn_protos(SSL_CTX *ctx, const unsigned char *protos,
                                   unsigned int protos_len);
__owur int SSL_set_alpn_protos(SSL *ssl, const unsigned char *protos,

                 unsigned int protos_len);
typedef int (*SSL_CTX_alpn_select_cb_func)(SSL *ssl,
                                           const unsigned char **out,
                                           unsigned char *outlen,
                                           const unsigned char *in,
                                           unsigned int inlen,
                                           void *arg);
void SSL_CTX_set_alpn_select_cb(SSL_CTX *ctx,
                                SSL_CTX_alpn_select_cb_func cb,
                                void *arg);
void SSL_get0_alpn_selected(const SSL *ssl, const unsigned char **data,
                            unsigned int *len);

# ifndef OPENSSL_NO_PSK
/*
* the maximum length of the buffer given to callbacks containing the
* resulting identity/psk
*/
#  define PSK_MAX_IDENTITY_LEN 256
#  define PSK_MAX_PSK_LEN 512
typedef unsigned int (*SSL_psk_client_cb_func)(SSL *ssl,
                                               const char
 *hint,
                                               char *identity,
                                               unsigned int max_identity_len,
                                               unsigned char *psk,
                                               unsigned int max_psk_len);
void SSL_CTX_set_psk_client_callback(SSL_CTX *ctx, SSL_psk_client_cb_func cb);
void SSL_set_psk_client_callback(SSL *ssl, SSL_psk_client_cb_func cb);

typedef unsigned int (*SSL_psk_server_cb_func)(SSL *ssl,
                                               const char *identity,
                                               unsigned char *psk,
                                               unsigned int max_psk_len);
void SSL_CTX_set_psk_server_callback(SSL_CTX *ctx, SSL_psk_server_cb_func cb);
void SSL_set_psk_server_callback(SSL *ssl, SSL_psk_server_cb_func cb);

__owur int SSL_CTX_use_psk_identity_hint(SSL_CTX *ctx, const char *identity_hint);
__owur int SSL_use_psk_identity_hint(SSL *s, const char *identity_hint);
const
```

```
 char *SSL_get_psk_identity_hint(const SSL *s);
const char *SSL_get_psk_identity(const SSL *s);
# endif

typedef int (*SSL_psk_find_session_cb_func)(SSL *ssl,
                                 const unsigned char *identity,
                                 size_t identity_len,
                                 SSL_SESSION **sess);
typedef int (*SSL_psk_use_session_cb_func)(SSL *ssl, const EVP_MD *md,
                                const unsigned char **id,
                                size_t *idlen,
                                SSL_SESSION **sess);

void SSL_set_psk_find_session_callback(SSL *s, SSL_psk_find_session_cb_func cb);
void SSL_CTX_set_psk_find_session_callback(SSL_CTX *ctx,
                                SSL_psk_find_session_cb_func cb);
void SSL_set_psk_use_session_callback(SSL *s, SSL_psk_use_session_cb_func cb);
void SSL_CTX_set_psk_use_session_callback(SSL_CTX *ctx,

                               SSL_psk_use_session_cb_func cb);

/* Register callbacks to handle custom TLS Extensions for client or server. */

__owur int SSL_CTX_has_client_custom_ext(const SSL_CTX *ctx,
                               unsigned int ext_type);

__owur int SSL_CTX_add_client_custom_ext(SSL_CTX *ctx,
                               unsigned int ext_type,
                               custom_ext_add_cb add_cb,
                               custom_ext_free_cb free_cb,
                               void *add_arg,
                               custom_ext_parse_cb parse_cb,
                               void *parse_arg);

__owur int SSL_CTX_add_server_custom_ext(SSL_CTX *ctx,
                               unsigned int ext_type,
                               custom_ext_add_cb add_cb,
                               custom_ext_free_cb free_cb,

               void *add_arg,
                               custom_ext_parse_cb parse_cb,
                               void *parse_arg);

__owur int SSL_CTX_add_custom_ext(SSL_CTX *ctx, unsigned int ext_type,
                         unsigned int context,
                         SSL_custom_ext_add_cb_ex add_cb,
                         SSL_custom_ext_free_cb_ex free_cb,
                         void *add_arg,
```

```
                        SSL_custom_ext_parse_cb_ex parse_cb,
                        void *parse_arg);

__owur int SSL_extension_supported(unsigned int ext_type);

# define SSL_NOTHING           1
# define SSL_WRITING           2
# define SSL_READING           3
# define SSL_X509_LOOKUP       4
# define SSL_ASYNC_PAUSED      5
# define SSL_ASYNC_NO_JOBS     6
# define SSL_CLIENT_HELLO_CB   7
# define SSL_RETRY_VERIFY      8

/* These will only be used when doing non-blocking IO */
# define SSL_want_nothing(s)
        (SSL_want(s) == SSL_NOTHING)
# define SSL_want_read(s)          (SSL_want(s) == SSL_READING)
# define SSL_want_write(s)         (SSL_want(s) == SSL_WRITING)
# define SSL_want_x509_lookup(s)   (SSL_want(s) == SSL_X509_LOOKUP)
# define SSL_want_retry_verify(s)  (SSL_want(s) == SSL_RETRY_VERIFY)
# define SSL_want_async(s)         (SSL_want(s) == SSL_ASYNC_PAUSED)
# define SSL_want_async_job(s)     (SSL_want(s) == SSL_ASYNC_NO_JOBS)
# define SSL_want_client_hello_cb(s) (SSL_want(s) == SSL_CLIENT_HELLO_CB)

# define SSL_MAC_FLAG_READ_MAC_STREAM 1
# define SSL_MAC_FLAG_WRITE_MAC_STREAM 2
# define SSL_MAC_FLAG_READ_MAC_TLSTREE 4
# define SSL_MAC_FLAG_WRITE_MAC_TLSTREE 8

/*
* A callback for logging out TLS key material. This callback should log out
* |line| followed by a newline.
*/
typedef void (*SSL_CTX_keylog_cb_func)(const SSL *ssl, const char *line);

/*
* SSL_CTX_set_keylog_callback configures a callback to log key material. This
* is intended
 for debugging use with tools like Wireshark. The cb function
* should log line followed by a newline.
*/
void SSL_CTX_set_keylog_callback(SSL_CTX *ctx, SSL_CTX_keylog_cb_func cb);

/*
* SSL_CTX_get_keylog_callback returns the callback configured by
* SSL_CTX_set_keylog_callback.
*/
```

```
SSL_CTX_keylog_cb_func SSL_CTX_get_keylog_callback(const SSL_CTX *ctx);

int SSL_CTX_set_max_early_data(SSL_CTX *ctx, uint32_t max_early_data);
uint32_t SSL_CTX_get_max_early_data(const SSL_CTX *ctx);
int SSL_set_max_early_data(SSL *s, uint32_t max_early_data);
uint32_t SSL_get_max_early_data(const SSL *s);
int SSL_CTX_set_recv_max_early_data(SSL_CTX *ctx, uint32_t recv_max_early_data);
uint32_t SSL_CTX_get_recv_max_early_data(const SSL_CTX *ctx);
int SSL_set_recv_max_early_data(SSL *s, uint32_t recv_max_early_data);
uint32_t SSL_get_recv_max_early_data(const SSL *s);

#ifdef __cplusplus
}
#endif

# include <openssl/ssl2.h>
# include <openssl/ssl3.h>
# include <openssl/tls1.h>      /* This is mostly sslv3
 with a few tweaks */
# include <openssl/dtls1.h>     /* Datagram TLS */
# include <openssl/srtp.h>      /* Support for the use_srtp extension */

#ifdef  __cplusplus
extern "C" {
#endif

/*
* These need to be after the above set of includes due to a compiler bug
* in VisualStudio 2015
*/
SKM_DEFINE_STACK_OF_INTERNAL(SSL_CIPHER, const SSL_CIPHER, SSL_CIPHER)
#define sk_SSL_CIPHER_num(sk) OPENSSL_sk_num(ossl_check_const_SSL_CIPHER_sk_type(sk))
#define sk_SSL_CIPHER_value(sk, idx) ((const SSL_CIPHER
*)OPENSSL_sk_value(ossl_check_const_SSL_CIPHER_sk_type(sk), (idx)))
#define sk_SSL_CIPHER_new(cmp) ((STACK_OF(SSL_CIPHER)
*)OPENSSL_sk_new(ossl_check_SSL_CIPHER_compfunc_type(cmp)))
#define sk_SSL_CIPHER_new_null() ((STACK_OF(SSL_CIPHER) *)OPENSSL_sk_new_null())
#define sk_SSL_CIPHER_new_reserve(cmp, n) ((STACK_OF(SSL_CIPHER)
*)OPENSSL_sk_new_reserve(ossl_check_SSL_CIPHER_compfunc_type(cmp), (n)))
#define sk_SSL_CIPHER_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_SSL_CIPHER_sk_type(sk),
 (n))
#define sk_SSL_CIPHER_free(sk) OPENSSL_sk_free(ossl_check_SSL_CIPHER_sk_type(sk))
#define sk_SSL_CIPHER_zero(sk) OPENSSL_sk_zero(ossl_check_SSL_CIPHER_sk_type(sk))
#define sk_SSL_CIPHER_delete(sk, i) ((const SSL_CIPHER
*)OPENSSL_sk_delete(ossl_check_SSL_CIPHER_sk_type(sk), (i)))
#define sk_SSL_CIPHER_delete_ptr(sk, ptr) ((const SSL_CIPHER
*)OPENSSL_sk_delete_ptr(ossl_check_SSL_CIPHER_sk_type(sk), ossl_check_SSL_CIPHER_type(ptr)))
#define sk_SSL_CIPHER_push(sk, ptr) OPENSSL_sk_push(ossl_check_SSL_CIPHER_sk_type(sk),
```

```
ossl_check_SSL_CIPHER_type(ptr))
#define sk_SSL_CIPHER_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_SSL_CIPHER_sk_type(sk),
ossl_check_SSL_CIPHER_type(ptr))
#define sk_SSL_CIPHER_pop(sk) ((const SSL_CIPHER
*)OPENSSL_sk_pop(ossl_check_SSL_CIPHER_sk_type(sk)))
#define sk_SSL_CIPHER_shift(sk) ((const SSL_CIPHER
*)OPENSSL_sk_shift(ossl_check_SSL_CIPHER_sk_type(sk)))
#define sk_SSL_CIPHER_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_SSL_CIPHER_sk_type(sk),ossl_check_SSL_CIPHER_freefunc_type(freefunc
))
#define
 sk_SSL_CIPHER_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_SSL_CIPHER_sk_type(sk),
ossl_check_SSL_CIPHER_type(ptr), (idx))
#define sk_SSL_CIPHER_set(sk, idx, ptr) ((const SSL_CIPHER
*)OPENSSL_sk_set(ossl_check_SSL_CIPHER_sk_type(sk), (idx), ossl_check_SSL_CIPHER_type(ptr)))
#define sk_SSL_CIPHER_find(sk, ptr) OPENSSL_sk_find(ossl_check_SSL_CIPHER_sk_type(sk),
ossl_check_SSL_CIPHER_type(ptr))
#define sk_SSL_CIPHER_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_SSL_CIPHER_sk_type(sk),
ossl_check_SSL_CIPHER_type(ptr))
#define sk_SSL_CIPHER_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_SSL_CIPHER_sk_type(sk),
ossl_check_SSL_CIPHER_type(ptr), pnum)
#define sk_SSL_CIPHER_sort(sk) OPENSSL_sk_sort(ossl_check_SSL_CIPHER_sk_type(sk))
#define sk_SSL_CIPHER_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_SSL_CIPHER_sk_type(sk))
#define sk_SSL_CIPHER_dup(sk) ((STACK_OF(SSL_CIPHER)
*)OPENSSL_sk_dup(ossl_check_const_SSL_CIPHER_sk_type(sk)))
#define
 sk_SSL_CIPHER_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(SSL_CIPHER)
*)OPENSSL_sk_deep_copy(ossl_check_const_SSL_CIPHER_sk_type(sk),
ossl_check_SSL_CIPHER_copyfunc_type(copyfunc), ossl_check_SSL_CIPHER_freefunc_type(freefunc)))
#define sk_SSL_CIPHER_set_cmp_func(sk, cmp)
((sk_SSL_CIPHER_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_SSL_CIPHER_sk_type(sk),
ossl_check_SSL_CIPHER_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(SSL_COMP, SSL_COMP, SSL_COMP)
#define sk_SSL_COMP_num(sk) OPENSSL_sk_num(ossl_check_const_SSL_COMP_sk_type(sk))
#define sk_SSL_COMP_value(sk, idx) ((SSL_COMP
*)OPENSSL_sk_value(ossl_check_const_SSL_COMP_sk_type(sk), (idx)))
#define sk_SSL_COMP_new(cmp) ((STACK_OF(SSL_COMP)
*)OPENSSL_sk_new(ossl_check_SSL_COMP_compfunc_type(cmp)))
#define sk_SSL_COMP_new_null() ((STACK_OF(SSL_COMP) *)OPENSSL_sk_new_null())
#define sk_SSL_COMP_new_reserve(cmp, n) ((STACK_OF(SSL_COMP)
*)OPENSSL_sk_new_reserve(ossl_check_SSL_COMP_compfunc_type(cmp), (n)))
#define sk_SSL_COMP_reserve(sk,
 n) OPENSSL_sk_reserve(ossl_check_SSL_COMP_sk_type(sk), (n))
#define sk_SSL_COMP_free(sk) OPENSSL_sk_free(ossl_check_SSL_COMP_sk_type(sk))
#define sk_SSL_COMP_zero(sk) OPENSSL_sk_zero(ossl_check_SSL_COMP_sk_type(sk))
#define sk_SSL_COMP_delete(sk, i) ((SSL_COMP *)OPENSSL_sk_delete(ossl_check_SSL_COMP_sk_type(sk),
(i)))
#define sk_SSL_COMP_delete_ptr(sk, ptr) ((SSL_COMP
```

```
*)OPENSSL_sk_delete_ptr(ossl_check_SSL_COMP_sk_type(sk), ossl_check_SSL_COMP_type(ptr)))
#define sk_SSL_COMP_push(sk, ptr) OPENSSL_sk_push(ossl_check_SSL_COMP_sk_type(sk),
ossl_check_SSL_COMP_type(ptr))
#define sk_SSL_COMP_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_SSL_COMP_sk_type(sk),
ossl_check_SSL_COMP_type(ptr))
#define sk_SSL_COMP_pop(sk) ((SSL_COMP *)OPENSSL_sk_pop(ossl_check_SSL_COMP_sk_type(sk)))
#define sk_SSL_COMP_shift(sk) ((SSL_COMP *)OPENSSL_sk_shift(ossl_check_SSL_COMP_sk_type(sk)))
#define sk_SSL_COMP_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_SSL_COMP_sk_type(sk),ossl_check_SSL_COMP_freefunc_type(freefunc))
#define
 sk_SSL_COMP_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_SSL_COMP_sk_type(sk),
ossl_check_SSL_COMP_type(ptr), (idx))
#define sk_SSL_COMP_set(sk, idx, ptr) ((SSL_COMP *)OPENSSL_sk_set(ossl_check_SSL_COMP_sk_type(sk),
(idx), ossl_check_SSL_COMP_type(ptr)))
#define sk_SSL_COMP_find(sk, ptr) OPENSSL_sk_find(ossl_check_SSL_COMP_sk_type(sk),
ossl_check_SSL_COMP_type(ptr))
#define sk_SSL_COMP_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_SSL_COMP_sk_type(sk),
ossl_check_SSL_COMP_type(ptr))
#define sk_SSL_COMP_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_SSL_COMP_sk_type(sk),
ossl_check_SSL_COMP_type(ptr), pnum)
#define sk_SSL_COMP_sort(sk) OPENSSL_sk_sort(ossl_check_SSL_COMP_sk_type(sk))
#define sk_SSL_COMP_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_SSL_COMP_sk_type(sk))
#define sk_SSL_COMP_dup(sk) ((STACK_OF(SSL_COMP)
*)OPENSSL_sk_dup(ossl_check_const_SSL_COMP_sk_type(sk)))
#define sk_SSL_COMP_deep_copy(sk, copyfunc, freefunc)
 ((STACK_OF(SSL_COMP) *)OPENSSL_sk_deep_copy(ossl_check_const_SSL_COMP_sk_type(sk),
ossl_check_SSL_COMP_copyfunc_type(copyfunc), ossl_check_SSL_COMP_freefunc_type(freefunc)))
#define sk_SSL_COMP_set_cmp_func(sk, cmp)
((sk_SSL_COMP_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_SSL_COMP_sk_type(sk),
ossl_check_SSL_COMP_compfunc_type(cmp)))


/* compatibility */
# define SSL_set_app_data(s,arg)         (SSL_set_ex_data(s,0,(char *)(arg)))
# define SSL_get_app_data(s)             (SSL_get_ex_data(s,0))
# define SSL_SESSION_set_app_data(s,a)   (SSL_SESSION_set_ex_data(s,0, \
                                          (char *)(a)))
# define SSL_SESSION_get_app_data(s)     (SSL_SESSION_get_ex_data(s,0))
# define SSL_CTX_get_app_data(ctx)       (SSL_CTX_get_ex_data(ctx,0))
# define SSL_CTX_set_app_data(ctx,arg)   (SSL_CTX_set_ex_data(ctx,0, \
                                         (char *)(arg)))
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0
 void SSL_set_debug(SSL *s, int debug);
# endif

/* TLSv1.3 KeyUpdate message types */
/* -1 used so that this is an invalid value for the on-the-wire protocol */
```

```
#define SSL_KEY_UPDATE_NONE             -1
/* Values as defined for the on-the-wire protocol */
#define SSL_KEY_UPDATE_NOT_REQUESTED     0
#define SSL_KEY_UPDATE_REQUESTED         1

/*
* The valid handshake states (one for each type message sent and one for each
* type of message received). There are also two "special" states:
* TLS = TLS or DTLS state
* DTLS = DTLS specific state
* CR/SR = Client Read/Server Read
* CW/SW = Client Write/Server Write
*
* The "special" states are:
* TLS_ST_BEFORE = No handshake has been initiated yet
* TLS_ST_OK = A handshake has been successfully completed
*/
typedef enum {
  TLS_ST_BEFORE,
  TLS_ST_OK,
  DTLS_ST_CR_HELLO_VERIFY_REQUEST,
  TLS_ST_CR_SRVR_HELLO,
  TLS_ST_CR_CERT,
  TLS_ST_CR_CERT_STATUS,
  TLS_ST_CR_KEY_EXCH,
  TLS_ST_CR_CERT_REQ,
  TLS_ST_CR_SRVR_DONE,
   TLS_ST_CR_SESSION_TICKET,
  TLS_ST_CR_CHANGE,
  TLS_ST_CR_FINISHED,
  TLS_ST_CW_CLNT_HELLO,
  TLS_ST_CW_CERT,
  TLS_ST_CW_KEY_EXCH,
  TLS_ST_CW_CERT_VRFY,
  TLS_ST_CW_CHANGE,
  TLS_ST_CW_NEXT_PROTO,
  TLS_ST_CW_FINISHED,
  TLS_ST_SW_HELLO_REQ,
  TLS_ST_SR_CLNT_HELLO,
  DTLS_ST_SW_HELLO_VERIFY_REQUEST,
  TLS_ST_SW_SRVR_HELLO,
  TLS_ST_SW_CERT,
  TLS_ST_SW_KEY_EXCH,
  TLS_ST_SW_CERT_REQ,
  TLS_ST_SW_SRVR_DONE,
  TLS_ST_SR_CERT,
  TLS_ST_SR_KEY_EXCH,
  TLS_ST_SR_CERT_VRFY,
```

```
  TLS_ST_SR_NEXT_PROTO,
  TLS_ST_SR_CHANGE,
  TLS_ST_SR_FINISHED,
  TLS_ST_SW_SESSION_TICKET,
  TLS_ST_SW_CERT_STATUS,
  TLS_ST_SW_CHANGE,
  TLS_ST_SW_FINISHED,
  TLS_ST_SW_ENCRYPTED_EXTENSIONS,
  TLS_ST_CR_ENCRYPTED_EXTENSIONS,
  TLS_ST_CR_CERT_VRFY,
  TLS_ST_SW_CERT_VRFY,
  TLS_ST_CR_HELLO_REQ,
  TLS_ST_SW_KEY_UPDATE,
  TLS_ST_CW_KEY_UPDATE,
  TLS_ST_SR_KEY_UPDATE,
  TLS_ST_CR_KEY_UPDATE,
  TLS_ST_EARLY_DATA,
  TLS_ST_PENDING_EARLY_DATA_END,
   TLS_ST_CW_END_OF_EARLY_DATA,
  TLS_ST_SR_END_OF_EARLY_DATA
} OSSL_HANDSHAKE_STATE;

/*
* Most of the following state values are no longer used and are defined to be
* the closest equivalent value in the current state machine code. Not all
* defines have an equivalent and are set to a dummy value (-1). SSL_ST_CONNECT
* and SSL_ST_ACCEPT are still in use in the definition of SSL_CB_ACCEPT_LOOP,
* SSL_CB_ACCEPT_EXIT, SSL_CB_CONNECT_LOOP and SSL_CB_CONNECT_EXIT.
*/

# define SSL_ST_CONNECT                0x1000
# define SSL_ST_ACCEPT                 0x2000

# define SSL_ST_MASK                   0x0FFF

# define SSL_CB_LOOP                   0x01
# define SSL_CB_EXIT                   0x02
# define SSL_CB_READ                   0x04
# define SSL_CB_WRITE                  0x08
# define SSL_CB_ALERT                  0x4000/* used in callback */
# define SSL_CB_READ_ALERT             (SSL_CB_ALERT|SSL_CB_READ)
# define SSL_CB_WRITE_ALERT
    (SSL_CB_ALERT|SSL_CB_WRITE)
# define SSL_CB_ACCEPT_LOOP            (SSL_ST_ACCEPT|SSL_CB_LOOP)
# define SSL_CB_ACCEPT_EXIT            (SSL_ST_ACCEPT|SSL_CB_EXIT)
# define SSL_CB_CONNECT_LOOP           (SSL_ST_CONNECT|SSL_CB_LOOP)
# define SSL_CB_CONNECT_EXIT           (SSL_ST_CONNECT|SSL_CB_EXIT)
# define SSL_CB_HANDSHAKE_START        0x10
```

```
# define SSL_CB_HANDSHAKE_DONE          0x20

/* Is the SSL_connection established? */
# define SSL_in_connect_init(a)         (SSL_in_init(a) && !SSL_is_server(a))
# define SSL_in_accept_init(a)          (SSL_in_init(a) && SSL_is_server(a))
int SSL_in_init(const SSL *s);
int SSL_in_before(const SSL *s);
int SSL_is_init_finished(const SSL *s);

/*
* The following 3 states are kept in ssl->rlayer.rstate when reads fail, you
* should not need these
*/
# define SSL_ST_READ_HEADER                     0xF0
# define SSL_ST_READ_BODY                       0xF1
# define SSL_ST_READ_DONE                       0xF2

/*-
* Obtain latest
 Finished message
*   -- that we sent (SSL_get_finished)
*   -- that we expected from peer (SSL_get_peer_finished).
* Returns length (0 == no Finished so far), copies up to 'count' bytes.
*/
size_t SSL_get_finished(const SSL *s, void *buf, size_t count);
size_t SSL_get_peer_finished(const SSL *s, void *buf, size_t count);

/*
* use either SSL_VERIFY_NONE or SSL_VERIFY_PEER, the last 3 options are
* 'ored' with SSL_VERIFY_PEER if they are desired
*/
# define SSL_VERIFY_NONE                0x00
# define SSL_VERIFY_PEER                0x01
# define SSL_VERIFY_FAIL_IF_NO_PEER_CERT 0x02
# define SSL_VERIFY_CLIENT_ONCE         0x04
# define SSL_VERIFY_POST_HANDSHAKE      0x08

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define OpenSSL_add_ssl_algorithms()   SSL_library_init()
#  define SSLeay_add_ssl_algorithms()    SSL_library_init()
# endif

/* More backward compatibility */
# define SSL_get_cipher(s) \
            SSL_CIPHER_get_name(SSL_get_current_cipher(s))
# define SSL_get_cipher_bits(s,np)
 \
            SSL_CIPHER_get_bits(SSL_get_current_cipher(s),np)
```

```
# define SSL_get_cipher_version(s) \
        SSL_CIPHER_get_version(SSL_get_current_cipher(s))
# define SSL_get_cipher_name(s) \
        SSL_CIPHER_get_name(SSL_get_current_cipher(s))
# define SSL_get_time(a)        SSL_SESSION_get_time(a)
# define SSL_set_time(a,b)      SSL_SESSION_set_time((a),(b))
# define SSL_get_timeout(a)     SSL_SESSION_get_timeout(a)
# define SSL_set_timeout(a,b)   SSL_SESSION_set_timeout((a),(b))

# define d2i_SSL_SESSION_bio(bp,s_id)
ASN1_d2i_bio_of(SSL_SESSION,SSL_SESSION_new,d2i_SSL_SESSION,bp,s_id)
# define i2d_SSL_SESSION_bio(bp,s_id) ASN1_i2d_bio_of(SSL_SESSION,i2d_SSL_SESSION,bp,s_id)

DECLARE_PEM_rw(SSL_SESSION, SSL_SESSION)
# define SSL_AD_REASON_OFFSET           1000/* offset to get SSL_R_... value
                                * from SSL_AD_... */
/* These alert types are for SSLv3 and TLSv1 */
# define SSL_AD_CLOSE_NOTIFY
    SSL3_AD_CLOSE_NOTIFY
/* fatal */
# define SSL_AD_UNEXPECTED_MESSAGE      SSL3_AD_UNEXPECTED_MESSAGE
/* fatal */
# define SSL_AD_BAD_RECORD_MAC          SSL3_AD_BAD_RECORD_MAC
# define SSL_AD_DECRYPTION_FAILED       TLS1_AD_DECRYPTION_FAILED
# define SSL_AD_RECORD_OVERFLOW         TLS1_AD_RECORD_OVERFLOW
/* fatal */
# define SSL_AD_DECOMPRESSION_FAILURE   SSL3_AD_DECOMPRESSION_FAILURE
/* fatal */
# define SSL_AD_HANDSHAKE_FAILURE       SSL3_AD_HANDSHAKE_FAILURE
/* Not for TLS */
# define SSL_AD_NO_CERTIFICATE          SSL3_AD_NO_CERTIFICATE
# define SSL_AD_BAD_CERTIFICATE         SSL3_AD_BAD_CERTIFICATE
# define SSL_AD_UNSUPPORTED_CERTIFICATE  SSL3_AD_UNSUPPORTED_CERTIFICATE
# define SSL_AD_CERTIFICATE_REVOKED     SSL3_AD_CERTIFICATE_REVOKED
# define SSL_AD_CERTIFICATE_EXPIRED     SSL3_AD_CERTIFICATE_EXPIRED
# define SSL_AD_CERTIFICATE_UNKNOWN     SSL3_AD_CERTIFICATE_UNKNOWN
/* fatal */
# define SSL_AD_ILLEGAL_PARAMETER       SSL3_AD_ILLEGAL_PARAMETER
/* fatal */
# define
 SSL_AD_UNKNOWN_CA              TLS1_AD_UNKNOWN_CA
/* fatal */
# define SSL_AD_ACCESS_DENIED           TLS1_AD_ACCESS_DENIED
/* fatal */
# define SSL_AD_DECODE_ERROR            TLS1_AD_DECODE_ERROR
# define SSL_AD_DECRYPT_ERROR           TLS1_AD_DECRYPT_ERROR
/* fatal */
# define SSL_AD_EXPORT_RESTRICTION      TLS1_AD_EXPORT_RESTRICTION
```

```
/* fatal */
# define SSL_AD_PROTOCOL_VERSION        TLS1_AD_PROTOCOL_VERSION
/* fatal */
# define SSL_AD_INSUFFICIENT_SECURITY    TLS1_AD_INSUFFICIENT_SECURITY
/* fatal */
# define SSL_AD_INTERNAL_ERROR          TLS1_AD_INTERNAL_ERROR
# define SSL_AD_USER_CANCELLED          TLS1_AD_USER_CANCELLED
# define SSL_AD_NO_RENEGOTIATION        TLS1_AD_NO_RENEGOTIATION
# define SSL_AD_MISSING_EXTENSION       TLS13_AD_MISSING_EXTENSION
# define SSL_AD_CERTIFICATE_REQUIRED     TLS13_AD_CERTIFICATE_REQUIRED
# define SSL_AD_UNSUPPORTED_EXTENSION    TLS1_AD_UNSUPPORTED_EXTENSION
# define SSL_AD_CERTIFICATE_UNOBTAINABLE TLS1_AD_CERTIFICATE_UNOBTAINABLE
#
 define SSL_AD_UNRECOGNIZED_NAME       TLS1_AD_UNRECOGNIZED_NAME
# define SSL_AD_BAD_CERTIFICATE_STATUS_RESPONSE
TLS1_AD_BAD_CERTIFICATE_STATUS_RESPONSE
# define SSL_AD_BAD_CERTIFICATE_HASH_VALUE TLS1_AD_BAD_CERTIFICATE_HASH_VALUE
/* fatal */
# define SSL_AD_UNKNOWN_PSK_IDENTITY     TLS1_AD_UNKNOWN_PSK_IDENTITY
/* fatal */
# define SSL_AD_INAPPROPRIATE_FALLBACK   TLS1_AD_INAPPROPRIATE_FALLBACK
# define SSL_AD_NO_APPLICATION_PROTOCOL  TLS1_AD_NO_APPLICATION_PROTOCOL
# define SSL_ERROR_NONE                  0
# define SSL_ERROR_SSL                   1
# define SSL_ERROR_WANT_READ             2
# define SSL_ERROR_WANT_WRITE            3
# define SSL_ERROR_WANT_X509_LOOKUP      4
# define SSL_ERROR_SYSCALL               5/* look at error stack/return
                                          * value/errno */
# define SSL_ERROR_ZERO_RETURN           6
# define SSL_ERROR_WANT_CONNECT          7
# define SSL_ERROR_WANT_ACCEPT           8
# define SSL_ERROR_WANT_ASYNC            9
# define SSL_ERROR_WANT_ASYNC_JOB
      10
# define SSL_ERROR_WANT_CLIENT_HELLO_CB 11
# define SSL_ERROR_WANT_RETRY_VERIFY    12

# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define SSL_CTRL_SET_TMP_DH                  3
#  define SSL_CTRL_SET_TMP_ECDH                4
#  define SSL_CTRL_SET_TMP_DH_CB               6
# endif

# define SSL_CTRL_GET_CLIENT_CERT_REQUEST       9
# define SSL_CTRL_GET_NUM_RENEGOTIATIONS        10
# define SSL_CTRL_CLEAR_NUM_RENEGOTIATIONS      11
# define SSL_CTRL_GET_TOTAL_RENEGOTIATIONS      12
```

```
# define SSL_CTRL_GET_FLAGS                    13
# define SSL_CTRL_EXTRA_CHAIN_CERT             14
# define SSL_CTRL_SET_MSG_CALLBACK             15
# define SSL_CTRL_SET_MSG_CALLBACK_ARG         16
/* only applies to datagram connections */
# define SSL_CTRL_SET_MTU              17
/* Stats */
# define SSL_CTRL_SESS_NUMBER                  20
# define SSL_CTRL_SESS_CONNECT                 21
# define SSL_CTRL_SESS_CONNECT_GOOD            22
# define SSL_CTRL_SESS_CONNECT_RENEGOTIATE
      23
# define SSL_CTRL_SESS_ACCEPT                  24
# define SSL_CTRL_SESS_ACCEPT_GOOD             25
# define SSL_CTRL_SESS_ACCEPT_RENEGOTIATE      26
# define SSL_CTRL_SESS_HIT                     27
# define SSL_CTRL_SESS_CB_HIT                  28
# define SSL_CTRL_SESS_MISSES                  29
# define SSL_CTRL_SESS_TIMEOUTS                30
# define SSL_CTRL_SESS_CACHE_FULL              31
# define SSL_CTRL_MODE                         33
# define SSL_CTRL_GET_READ_AHEAD               40
# define SSL_CTRL_SET_READ_AHEAD               41
# define SSL_CTRL_SET_SESS_CACHE_SIZE          42
# define SSL_CTRL_GET_SESS_CACHE_SIZE          43
# define SSL_CTRL_SET_SESS_CACHE_MODE          44
# define SSL_CTRL_GET_SESS_CACHE_MODE          45
# define SSL_CTRL_GET_MAX_CERT_LIST            50
# define SSL_CTRL_SET_MAX_CERT_LIST            51
# define SSL_CTRL_SET_MAX_SEND_FRAGMENT        52
/* see tls1.h for macros based
 on these */
# define SSL_CTRL_SET_TLSEXT_SERVERNAME_CB     53
# define SSL_CTRL_SET_TLSEXT_SERVERNAME_ARG    54
# define SSL_CTRL_SET_TLSEXT_HOSTNAME          55
# define SSL_CTRL_SET_TLSEXT_DEBUG_CB          56
# define SSL_CTRL_SET_TLSEXT_DEBUG_ARG         57
# define SSL_CTRL_GET_TLSEXT_TICKET_KEYS       58
# define SSL_CTRL_SET_TLSEXT_TICKET_KEYS       59
/*# define SSL_CTRL_SET_TLSEXT_OPAQUE_PRF_INPUT    60 */
/*# define SSL_CTRL_SET_TLSEXT_OPAQUE_PRF_INPUT_CB 61 */
/*# define SSL_CTRL_SET_TLSEXT_OPAQUE_PRF_INPUT_CB_ARG 62 */
# define SSL_CTRL_SET_TLSEXT_STATUS_REQ_CB     63
# define SSL_CTRL_SET_TLSEXT_STATUS_REQ_CB_ARG   64
# define SSL_CTRL_SET_TLSEXT_STATUS_REQ_TYPE    65
# define SSL_CTRL_GET_TLSEXT_STATUS_REQ_EXTS    66
# define SSL_CTRL_SET_TLSEXT_STATUS_REQ_EXTS    67
# define SSL_CTRL_GET_TLSEXT_STATUS_REQ_IDS     68
```

```
# define SSL_CTRL_SET_TLSEXT_STATUS_REQ_IDS      69
# define SSL_CTRL_GET_TLSEXT_STATUS_REQ_OCSP_RESP        70
# define SSL_CTRL_SET_TLSEXT_STATUS_REQ_OCSP_RESP
        71
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define SSL_CTRL_SET_TLSEXT_TICKET_KEY_CB      72
# endif
# define SSL_CTRL_SET_TLS_EXT_SRP_USERNAME_CB    75
# define SSL_CTRL_SET_SRP_VERIFY_PARAM_CB              76
# define SSL_CTRL_SET_SRP_GIVE_CLIENT_PWD_CB           77
# define SSL_CTRL_SET_SRP_ARG           78
# define SSL_CTRL_SET_TLS_EXT_SRP_USERNAME             79
# define SSL_CTRL_SET_TLS_EXT_SRP_STRENGTH             80
# define SSL_CTRL_SET_TLS_EXT_SRP_PASSWORD             81
# define DTLS_CTRL_GET_TIMEOUT           73
# define DTLS_CTRL_HANDLE_TIMEOUT        74
# define SSL_CTRL_GET_RI_SUPPORT               76
# define SSL_CTRL_CLEAR_MODE                   78
# define SSL_CTRL_SET_NOT_RESUMABLE_SESS_CB      79
# define SSL_CTRL_GET_EXTRA_CHAIN_CERTS          82
# define SSL_CTRL_CLEAR_EXTRA_CHAIN_CERTS        83
# define SSL_CTRL_CHAIN                        88
# define SSL_CTRL_CHAIN_CERT                   89
# define SSL_CTRL_GET_GROUPS
                90
# define SSL_CTRL_SET_GROUPS                   91
# define SSL_CTRL_SET_GROUPS_LIST              92
# define SSL_CTRL_GET_SHARED_GROUP             93
# define SSL_CTRL_SET_SIGALGS                  97
# define SSL_CTRL_SET_SIGALGS_LIST             98
# define SSL_CTRL_CERT_FLAGS                   99
# define SSL_CTRL_CLEAR_CERT_FLAGS             100
# define SSL_CTRL_SET_CLIENT_SIGALGS           101
# define SSL_CTRL_SET_CLIENT_SIGALGS_LIST        102
# define SSL_CTRL_GET_CLIENT_CERT_TYPES          103
# define SSL_CTRL_SET_CLIENT_CERT_TYPES          104
# define SSL_CTRL_BUILD_CERT_CHAIN               105
# define SSL_CTRL_SET_VERIFY_CERT_STORE          106
# define SSL_CTRL_SET_CHAIN_CERT_STORE           107
# define SSL_CTRL_GET_PEER_SIGNATURE_NID         108
# define SSL_CTRL_GET_PEER_TMP_KEY               109
# define SSL_CTRL_GET_RAW_CIPHERLIST             110
# define SSL_CTRL_GET_EC_POINT_FORMATS           111
# define SSL_CTRL_GET_CHAIN_CERTS
            115
# define SSL_CTRL_SELECT_CURRENT_CERT            116
# define SSL_CTRL_SET_CURRENT_CERT               117
# define SSL_CTRL_SET_DH_AUTO                    118
```

```
# define DTLS_CTRL_SET_LINK_MTU                 120
# define DTLS_CTRL_GET_LINK_MIN_MTU             121
# define SSL_CTRL_GET_EXTMS_SUPPORT             122
# define SSL_CTRL_SET_MIN_PROTO_VERSION         123
# define SSL_CTRL_SET_MAX_PROTO_VERSION         124
# define SSL_CTRL_SET_SPLIT_SEND_FRAGMENT       125
# define SSL_CTRL_SET_MAX_PIPELINES             126
# define SSL_CTRL_GET_TLSEXT_STATUS_REQ_TYPE    127
# define SSL_CTRL_GET_TLSEXT_STATUS_REQ_CB      128
# define SSL_CTRL_GET_TLSEXT_STATUS_REQ_CB_ARG  129
# define SSL_CTRL_GET_MIN_PROTO_VERSION         130
# define SSL_CTRL_GET_MAX_PROTO_VERSION         131
# define SSL_CTRL_GET_SIGNATURE_NID             132
# define SSL_CTRL_GET_TMP_KEY                   133
# define SSL_CTRL_GET_NEGOTIATED_GROUP          134
# define SSL_CTRL_SET_RETRY_VERIFY
            136
# define SSL_CTRL_GET_VERIFY_CERT_STORE         137
# define SSL_CTRL_GET_CHAIN_CERT_STORE          138
# define SSL_CERT_SET_FIRST                     1
# define SSL_CERT_SET_NEXT                      2
# define SSL_CERT_SET_SERVER                    3
# define DTLSv1_get_timeout(ssl, arg) \
     SSL_ctrl(ssl,DTLS_CTRL_GET_TIMEOUT,0, (void *)(arg))
# define DTLSv1_handle_timeout(ssl) \
     SSL_ctrl(ssl,DTLS_CTRL_HANDLE_TIMEOUT,0, NULL)
# define SSL_num_renegotiations(ssl) \
     SSL_ctrl((ssl),SSL_CTRL_GET_NUM_RENEGOTIATIONS,0,NULL)
# define SSL_clear_num_renegotiations(ssl) \
     SSL_ctrl((ssl),SSL_CTRL_CLEAR_NUM_RENEGOTIATIONS,0,NULL)
# define SSL_total_renegotiations(ssl) \
     SSL_ctrl((ssl),SSL_CTRL_GET_TOTAL_RENEGOTIATIONS,0,NULL)
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define SSL_CTX_set_tmp_dh(ctx,dh) \
     SSL_CTX_ctrl(ctx,SSL_CTRL_SET_TMP_DH,0,(char *)(dh))
# endif
# define SSL_CTX_set_dh_auto(ctx, onoff) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SET_DH_AUTO,onoff,NULL)
# define SSL_set_dh_auto(s, onoff) \
     SSL_ctrl(s,SSL_CTRL_SET_DH_AUTO,onoff,NULL)
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define SSL_set_tmp_dh(ssl,dh) \
     SSL_ctrl(ssl,SSL_CTRL_SET_TMP_DH,0,(char *)(dh))
# endif
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define SSL_CTX_set_tmp_ecdh(ctx,ecdh) \
     SSL_CTX_ctrl(ctx,SSL_CTRL_SET_TMP_ECDH,0,(char *)(ecdh))
#  define SSL_set_tmp_ecdh(ssl,ecdh) \
```

```
    SSL_ctrl(ssl,SSL_CTRL_SET_TMP_ECDH,0,(char *)(ecdh))
# endif
# define SSL_CTX_add_extra_chain_cert(ctx,x509) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_EXTRA_CHAIN_CERT,0,(char *)(x509))
# define SSL_CTX_get_extra_chain_certs(ctx,px509) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_GET_EXTRA_CHAIN_CERTS,0,px509)
# define SSL_CTX_get_extra_chain_certs_only(ctx,px509) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_GET_EXTRA_CHAIN_CERTS,1,px509)
# define SSL_CTX_clear_extra_chain_certs(ctx) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_CLEAR_EXTRA_CHAIN_CERTS,0,NULL)
#
 define SSL_CTX_set0_chain(ctx,sk) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_CHAIN,0,(char *)(sk))
# define SSL_CTX_set1_chain(ctx,sk) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_CHAIN,1,(char *)(sk))
# define SSL_CTX_add0_chain_cert(ctx,x509) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_CHAIN_CERT,0,(char *)(x509))
# define SSL_CTX_add1_chain_cert(ctx,x509) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_CHAIN_CERT,1,(char *)(x509))
# define SSL_CTX_get0_chain_certs(ctx,px509) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_GET_CHAIN_CERTS,0,px509)
# define SSL_CTX_clear_chain_certs(ctx) \
    SSL_CTX_set0_chain(ctx,NULL)
# define SSL_CTX_build_cert_chain(ctx, flags) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_BUILD_CERT_CHAIN, flags, NULL)
# define SSL_CTX_select_current_cert(ctx,x509) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SELECT_CURRENT_CERT,0,(char *)(x509))
# define SSL_CTX_set_current_cert(ctx, op) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_CURRENT_CERT, op, NULL)
# define SSL_CTX_set0_verify_cert_store(ctx,st) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_VERIFY_CERT_STORE,0,(char
 *)(st))
# define SSL_CTX_set1_verify_cert_store(ctx,st) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_VERIFY_CERT_STORE,1,(char *)(st))
# define SSL_CTX_get0_verify_cert_store(ctx,st) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_GET_VERIFY_CERT_STORE,0,(char *)(st))
# define SSL_CTX_set0_chain_cert_store(ctx,st) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_CHAIN_CERT_STORE,0,(char *)(st))
# define SSL_CTX_set1_chain_cert_store(ctx,st) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_CHAIN_CERT_STORE,1,(char *)(st))
# define SSL_CTX_get0_chain_cert_store(ctx,st) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_GET_CHAIN_CERT_STORE,0,(char *)(st))
# define SSL_set0_chain(s,sk) \
    SSL_ctrl(s,SSL_CTRL_CHAIN,0,(char *)(sk))
# define SSL_set1_chain(s,sk) \
    SSL_ctrl(s,SSL_CTRL_CHAIN,1,(char *)(sk))
# define SSL_add0_chain_cert(s,x509) \
    SSL_ctrl(s,SSL_CTRL_CHAIN_CERT,0,(char *)(x509))
```

```
# define SSL_add1_chain_cert(s,x509) \
      SSL_ctrl(s,SSL_CTRL_CHAIN_CERT,1,(char
 *)(x509))
# define SSL_get0_chain_certs(s,px509) \
      SSL_ctrl(s,SSL_CTRL_GET_CHAIN_CERTS,0,px509)
# define SSL_clear_chain_certs(s) \
      SSL_set0_chain(s,NULL)
# define SSL_build_cert_chain(s, flags) \
      SSL_ctrl(s,SSL_CTRL_BUILD_CERT_CHAIN, flags, NULL)
# define SSL_select_current_cert(s,x509) \
      SSL_ctrl(s,SSL_CTRL_SELECT_CURRENT_CERT,0,(char *)(x509))
# define SSL_set_current_cert(s,op) \
      SSL_ctrl(s,SSL_CTRL_SET_CURRENT_CERT, op, NULL)
# define SSL_set0_verify_cert_store(s,st) \
      SSL_ctrl(s,SSL_CTRL_SET_VERIFY_CERT_STORE,0,(char *)(st))
# define SSL_set1_verify_cert_store(s,st) \
      SSL_ctrl(s,SSL_CTRL_SET_VERIFY_CERT_STORE,1,(char *)(st))
#define SSL_get0_verify_cert_store(s,st) \
      SSL_ctrl(s,SSL_CTRL_GET_VERIFY_CERT_STORE,0,(char *)(st))
# define SSL_set0_chain_cert_store(s,st) \
      SSL_ctrl(s,SSL_CTRL_SET_CHAIN_CERT_STORE,0,(char *)(st))
# define SSL_set1_chain_cert_store(s,st) \
      SSL_ctrl(s,SSL_CTRL_SET_CHAIN_CERT_STORE,1,(char
 *)(st))
#define SSL_get0_chain_cert_store(s,st) \
      SSL_ctrl(s,SSL_CTRL_GET_CHAIN_CERT_STORE,0,(char *)(st))

# define SSL_get1_groups(s, glist) \
      SSL_ctrl(s,SSL_CTRL_GET_GROUPS,0,(int*)(glist))
# define SSL_CTX_set1_groups(ctx, glist, glistlen) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SET_GROUPS,glistlen,(int *)(glist))
# define SSL_CTX_set1_groups_list(ctx, s) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SET_GROUPS_LIST,0,(char *)(s))
# define SSL_set1_groups(s, glist, glistlen) \
      SSL_ctrl(s,SSL_CTRL_SET_GROUPS,glistlen,(char *)(glist))
# define SSL_set1_groups_list(s, str) \
      SSL_ctrl(s,SSL_CTRL_SET_GROUPS_LIST,0,(char *)(str))
# define SSL_get_shared_group(s, n) \
      SSL_ctrl(s,SSL_CTRL_GET_SHARED_GROUP,n,NULL)
# define SSL_get_negotiated_group(s) \
      SSL_ctrl(s,SSL_CTRL_GET_NEGOTIATED_GROUP,0,NULL)
# define SSL_CTX_set1_sigalgs(ctx, slist, slistlen) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SET_SIGALGS,slistlen,(int *)(slist))
# define SSL_CTX_set1_sigalgs_list(ctx,
 s) \
      SSL_CTX_ctrl(ctx,SSL_CTRL_SET_SIGALGS_LIST,0,(char *)(s))
# define SSL_set1_sigalgs(s, slist, slistlen) \
      SSL_ctrl(s,SSL_CTRL_SET_SIGALGS,slistlen,(int *)(slist))
```

```
# define SSL_set1_sigalgs_list(s, str) \
	SSL_ctrl(s,SSL_CTRL_SET_SIGALGS_LIST,0,(char *)(str))
# define SSL_CTX_set1_client_sigalgs(ctx, slist, slistlen) \
	SSL_CTX_ctrl(ctx,SSL_CTRL_SET_CLIENT_SIGALGS,slistlen,(int *)(slist))
# define SSL_CTX_set1_client_sigalgs_list(ctx, s) \
	SSL_CTX_ctrl(ctx,SSL_CTRL_SET_CLIENT_SIGALGS_LIST,0,(char *)(s))
# define SSL_set1_client_sigalgs(s, slist, slistlen) \
	SSL_ctrl(s,SSL_CTRL_SET_CLIENT_SIGALGS,slistlen,(int *)(slist))
# define SSL_set1_client_sigalgs_list(s, str) \
	SSL_ctrl(s,SSL_CTRL_SET_CLIENT_SIGALGS_LIST,0,(char *)(str))
# define SSL_get0_certificate_types(s, clist) \
	SSL_ctrl(s, SSL_CTRL_GET_CLIENT_CERT_TYPES, 0, (char *)(clist))
# define SSL_CTX_set1_client_certificate_types(ctx, clist, clistlen)
 \
	SSL_CTX_ctrl(ctx,SSL_CTRL_SET_CLIENT_CERT_TYPES,clistlen, \
		(char *)(clist))
# define SSL_set1_client_certificate_types(s, clist, clistlen) \
	SSL_ctrl(s,SSL_CTRL_SET_CLIENT_CERT_TYPES,clistlen,(char *)(clist))
# define SSL_get_signature_nid(s, pn) \
	SSL_ctrl(s,SSL_CTRL_GET_SIGNATURE_NID,0,pn)
# define SSL_get_peer_signature_nid(s, pn) \
	SSL_ctrl(s,SSL_CTRL_GET_PEER_SIGNATURE_NID,0,pn)
# define SSL_get_peer_tmp_key(s, pk) \
	SSL_ctrl(s,SSL_CTRL_GET_PEER_TMP_KEY,0,pk)
# define SSL_get_tmp_key(s, pk) \
	SSL_ctrl(s,SSL_CTRL_GET_TMP_KEY,0,pk)
# define SSL_get0_raw_cipherlist(s, plst) \
	SSL_ctrl(s,SSL_CTRL_GET_RAW_CIPHERLIST,0,plst)
# define SSL_get0_ec_point_formats(s, plst) \
	SSL_ctrl(s,SSL_CTRL_GET_EC_POINT_FORMATS,0,plst)
# define SSL_CTX_set_min_proto_version(ctx, version) \
	SSL_CTX_ctrl(ctx, SSL_CTRL_SET_MIN_PROTO_VERSION, version, NULL)
# define SSL_CTX_set_max_proto_version(ctx, version)
 \
	SSL_CTX_ctrl(ctx, SSL_CTRL_SET_MAX_PROTO_VERSION, version, NULL)
# define SSL_CTX_get_min_proto_version(ctx) \
	SSL_CTX_ctrl(ctx, SSL_CTRL_GET_MIN_PROTO_VERSION, 0, NULL)
# define SSL_CTX_get_max_proto_version(ctx) \
	SSL_CTX_ctrl(ctx, SSL_CTRL_GET_MAX_PROTO_VERSION, 0, NULL)
# define SSL_set_min_proto_version(s, version) \
	SSL_ctrl(s, SSL_CTRL_SET_MIN_PROTO_VERSION, version, NULL)
# define SSL_set_max_proto_version(s, version) \
	SSL_ctrl(s, SSL_CTRL_SET_MAX_PROTO_VERSION, version, NULL)
# define SSL_get_min_proto_version(s) \
	SSL_ctrl(s, SSL_CTRL_GET_MIN_PROTO_VERSION, 0, NULL)
# define SSL_get_max_proto_version(s) \
	SSL_ctrl(s, SSL_CTRL_GET_MAX_PROTO_VERSION, 0, NULL)
```

```
const char *SSL_group_to_name(SSL *s, int id);

/* Backwards compatibility, original 1.1.0 names */
# define SSL_CTRL_GET_SERVER_TMP_KEY \
        SSL_CTRL_GET_PEER_TMP_KEY
# define SSL_get_server_tmp_key(s, pk) \
        SSL_get_peer_tmp_key(s, pk)

int SSL_set0_tmp_dh_pkey(SSL
 *s, EVP_PKEY *dhpkey);
int SSL_CTX_set0_tmp_dh_pkey(SSL_CTX *ctx, EVP_PKEY *dhpkey);

/*
* The following symbol names are old and obsolete. They are kept
* for compatibility reasons only and should not be used anymore.
*/
# define SSL_CTRL_GET_CURVES          SSL_CTRL_GET_GROUPS
# define SSL_CTRL_SET_CURVES          SSL_CTRL_SET_GROUPS
# define SSL_CTRL_SET_CURVES_LIST     SSL_CTRL_SET_GROUPS_LIST
# define SSL_CTRL_GET_SHARED_CURVE    SSL_CTRL_GET_SHARED_GROUP

# define SSL_get1_curves              SSL_get1_groups
# define SSL_CTX_set1_curves          SSL_CTX_set1_groups
# define SSL_CTX_set1_curves_list     SSL_CTX_set1_groups_list
# define SSL_set1_curves              SSL_set1_groups
# define SSL_set1_curves_list         SSL_set1_groups_list
# define SSL_get_shared_curve         SSL_get_shared_group


# ifndef OPENSSL_NO_DEPRECATED_1_1_0
/* Provide some compatibility macros for removed functionality. */
#  define SSL_CTX_need_tmp_RSA(ctx)
      0
#  define SSL_CTX_set_tmp_rsa(ctx,rsa)            1
#  define SSL_need_tmp_RSA(ssl)                   0
#  define SSL_set_tmp_rsa(ssl,rsa)                1
#  define SSL_CTX_set_ecdh_auto(dummy, onoff)     ((onoff) != 0)
#  define SSL_set_ecdh_auto(dummy, onoff)         ((onoff) != 0)
/*
* We "pretend" to call the callback to avoid warnings about unused static
* functions.
*/
#  define SSL_CTX_set_tmp_rsa_callback(ctx, cb)   while(0) (cb)(NULL, 0, 0)
#  define SSL_set_tmp_rsa_callback(ssl, cb)       while(0) (cb)(NULL, 0, 0)
# endif
__owur const BIO_METHOD *BIO_f_ssl(void);
__owur BIO *BIO_new_ssl(SSL_CTX *ctx, int client);
__owur BIO *BIO_new_ssl_connect(SSL_CTX *ctx);
```

```
__owur BIO *BIO_new_buffer_ssl_connect(SSL_CTX *ctx);
__owur int BIO_ssl_copy_session_id(BIO *to, BIO *from);
void BIO_ssl_shutdown(BIO *ssl_bio);

__owur int SSL_CTX_set_cipher_list(SSL_CTX *, const char *str);
__owur SSL_CTX *SSL_CTX_new(const SSL_METHOD *meth);
__owur SSL_CTX *SSL_CTX_new_ex(OSSL_LIB_CTX
 *libctx, const char *propq,
                        const SSL_METHOD *meth);
int SSL_CTX_up_ref(SSL_CTX *ctx);
void SSL_CTX_free(SSL_CTX *);
__owur long SSL_CTX_set_timeout(SSL_CTX *ctx, long t);
__owur long SSL_CTX_get_timeout(const SSL_CTX *ctx);
__owur X509_STORE *SSL_CTX_get_cert_store(const SSL_CTX *);
void SSL_CTX_set_cert_store(SSL_CTX *, X509_STORE *);
void SSL_CTX_set1_cert_store(SSL_CTX *, X509_STORE *);
__owur int SSL_want(const SSL *s);
__owur int SSL_clear(SSL *s);

void SSL_CTX_flush_sessions(SSL_CTX *ctx, long tm);

__owur const SSL_CIPHER *SSL_get_current_cipher(const SSL *s);
__owur const SSL_CIPHER *SSL_get_pending_cipher(const SSL *s);
__owur int SSL_CIPHER_get_bits(const SSL_CIPHER *c, int *alg_bits);
__owur const char *SSL_CIPHER_get_version(const SSL_CIPHER *c);
__owur const char *SSL_CIPHER_get_name(const SSL_CIPHER *c);
__owur const char *SSL_CIPHER_standard_name(const SSL_CIPHER *c);
__owur const char *OPENSSL_cipher_name(const char *rfc_name);
__owur
 uint32_t SSL_CIPHER_get_id(const SSL_CIPHER *c);
__owur uint16_t SSL_CIPHER_get_protocol_id(const SSL_CIPHER *c);
__owur int SSL_CIPHER_get_kx_nid(const SSL_CIPHER *c);
__owur int SSL_CIPHER_get_auth_nid(const SSL_CIPHER *c);
__owur const EVP_MD *SSL_CIPHER_get_handshake_digest(const SSL_CIPHER *c);
__owur int SSL_CIPHER_is_aead(const SSL_CIPHER *c);

__owur int SSL_get_fd(const SSL *s);
__owur int SSL_get_rfd(const SSL *s);
__owur int SSL_get_wfd(const SSL *s);
__owur const char *SSL_get_cipher_list(const SSL *s, int n);
__owur char *SSL_get_shared_ciphers(const SSL *s, char *buf, int size);
__owur int SSL_get_read_ahead(const SSL *s);
__owur int SSL_pending(const SSL *s);
__owur int SSL_has_pending(const SSL *s);
# ifndef OPENSSL_NO_SOCK
__owur int SSL_set_fd(SSL *s, int fd);
__owur int SSL_set_rfd(SSL *s, int fd);
__owur int SSL_set_wfd(SSL *s, int fd);
```

```
# endif
void SSL_set0_rbio(SSL *s, BIO *rbio);
void SSL_set0_wbio(SSL *s, BIO *wbio);
void SSL_set_bio(SSL *s, BIO *rbio, BIO *wbio);
__owur
 BIO *SSL_get_rbio(const SSL *s);
__owur BIO *SSL_get_wbio(const SSL *s);
__owur int SSL_set_cipher_list(SSL *s, const char *str);
__owur int SSL_CTX_set_ciphersuites(SSL_CTX *ctx, const char *str);
__owur int SSL_set_ciphersuites(SSL *s, const char *str);
void SSL_set_read_ahead(SSL *s, int yes);
__owur int SSL_get_verify_mode(const SSL *s);
__owur int SSL_get_verify_depth(const SSL *s);
__owur SSL_verify_cb SSL_get_verify_callback(const SSL *s);
void SSL_set_verify(SSL *s, int mode, SSL_verify_cb callback);
void SSL_set_verify_depth(SSL *s, int depth);
void SSL_set_cert_cb(SSL *s, int (*cb) (SSL *ssl, void *arg), void *arg);
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 __owur int SSL_use_RSAPrivateKey(SSL *ssl, RSA *rsa);
OSSL_DEPRECATEDIN_3_0
__owur int SSL_use_RSAPrivateKey_ASN1(SSL *ssl,
                                      const unsigned char *d, long len);
# endif
__owur int SSL_use_PrivateKey(SSL *ssl, EVP_PKEY *pkey);
__owur int SSL_use_PrivateKey_ASN1(int
 pk, SSL *ssl, const unsigned char *d,
                                    long len);
__owur int SSL_use_certificate(SSL *ssl, X509 *x);
__owur int SSL_use_certificate_ASN1(SSL *ssl, const unsigned char *d, int len);
__owur int SSL_use_cert_and_key(SSL *ssl, X509 *x509, EVP_PKEY *privatekey,
                                STACK_OF(X509) *chain, int override);


/* serverinfo file format versions */
# define SSL_SERVERINFOV1   1
# define SSL_SERVERINFOV2   2

/* Set serverinfo data for the current active cert. */
__owur int SSL_CTX_use_serverinfo(SSL_CTX *ctx, const unsigned char *serverinfo,
                                  size_t serverinfo_length);
__owur int SSL_CTX_use_serverinfo_ex(SSL_CTX *ctx, unsigned int version,
                                     const unsigned char *serverinfo,
                                     size_t serverinfo_length);
__owur int SSL_CTX_use_serverinfo_file(SSL_CTX *ctx, const char *file);

#ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0
__owur
```

```
 int SSL_use_RSAPrivateKey_file(SSL *ssl, const char *file, int type);
#endif

__owur int SSL_use_PrivateKey_file(SSL *ssl, const char *file, int type);
__owur int SSL_use_certificate_file(SSL *ssl, const char *file, int type);

#ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0
__owur int SSL_CTX_use_RSAPrivateKey_file(SSL_CTX *ctx, const char *file,
                                          int type);
#endif
__owur int SSL_CTX_use_PrivateKey_file(SSL_CTX *ctx, const char *file,
                                       int type);
__owur int SSL_CTX_use_certificate_file(SSL_CTX *ctx, const char *file,
                                        int type);
/* PEM type */
__owur int SSL_CTX_use_certificate_chain_file(SSL_CTX *ctx, const char *file);
__owur int SSL_use_certificate_chain_file(SSL *ssl, const char *file);
__owur STACK_OF(X509_NAME) *SSL_load_client_CA_file(const char *file);
__owur STACK_OF(X509_NAME)
*SSL_load_client_CA_file_ex(const char *file, OSSL_LIB_CTX *libctx,
                            const char *propq);
__owur int SSL_add_file_cert_subjects_to_stack(STACK_OF(X509_NAME) *stackCAs,
                                               const char *file);
int SSL_add_dir_cert_subjects_to_stack(STACK_OF(X509_NAME) *stackCAs,
                                       const char *dir);
int SSL_add_store_cert_subjects_to_stack(STACK_OF(X509_NAME) *stackCAs,
                                         const char *uri);

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define SSL_load_error_strings() \
   OPENSSL_init_ssl(OPENSSL_INIT_LOAD_SSL_STRINGS \
                    | OPENSSL_INIT_LOAD_CRYPTO_STRINGS, NULL)
# endif

__owur const char *SSL_state_string(const SSL *s);
__owur const char *SSL_rstate_string(const SSL *s);
__owur const char *SSL_state_string_long(const SSL *s);
__owur const char *SSL_rstate_string_long(const SSL *s);
__owur long SSL_SESSION_get_time(const SSL_SESSION *s);
__owur long SSL_SESSION_set_time(SSL_SESSION *s, long t);
__owur long SSL_SESSION_get_timeout(const
 SSL_SESSION *s);
__owur long SSL_SESSION_set_timeout(SSL_SESSION *s, long t);
__owur int SSL_SESSION_get_protocol_version(const SSL_SESSION *s);
__owur int SSL_SESSION_set_protocol_version(SSL_SESSION *s, int version);

__owur const char *SSL_SESSION_get0_hostname(const SSL_SESSION *s);
```

```
__owur int SSL_SESSION_set1_hostname(SSL_SESSION *s, const char *hostname);
void SSL_SESSION_get0_alpn_selected(const SSL_SESSION *s,
                                    const unsigned char **alpn,
                                    size_t *len);
__owur int SSL_SESSION_set1_alpn_selected(SSL_SESSION *s,
                                          const unsigned char *alpn,
                                          size_t len);
__owur const SSL_CIPHER *SSL_SESSION_get0_cipher(const SSL_SESSION *s);
__owur int SSL_SESSION_set_cipher(SSL_SESSION *s, const SSL_CIPHER *cipher);
__owur int SSL_SESSION_has_ticket(const SSL_SESSION *s);
__owur unsigned long SSL_SESSION_get_ticket_lifetime_hint(const
 SSL_SESSION *s);
void SSL_SESSION_get0_ticket(const SSL_SESSION *s, const unsigned char **tick,
                             size_t *len);
__owur uint32_t SSL_SESSION_get_max_early_data(const SSL_SESSION *s);
__owur int SSL_SESSION_set_max_early_data(SSL_SESSION *s,
                                          uint32_t max_early_data);
__owur int SSL_copy_session_id(SSL *to, const SSL *from);
__owur X509 *SSL_SESSION_get0_peer(SSL_SESSION *s);
__owur int SSL_SESSION_set1_id_context(SSL_SESSION *s,
                                       const unsigned char *sid_ctx,
                                       unsigned int sid_ctx_len);
__owur int SSL_SESSION_set1_id(SSL_SESSION *s, const unsigned char *sid,
                               unsigned int sid_len);
__owur int SSL_SESSION_is_resumable(const SSL_SESSION *s);

__owur SSL_SESSION *SSL_SESSION_new(void);
__owur SSL_SESSION *SSL_SESSION_dup(const SSL_SESSION *src);
const unsigned char *SSL_SESSION_get_id(const SSL_SESSION *s,

                                        unsigned int *len);
const unsigned char *SSL_SESSION_get0_id_context(const SSL_SESSION *s,
                                                 unsigned int *len);
__owur unsigned int SSL_SESSION_get_compress_id(const SSL_SESSION *s);
# ifndef OPENSSL_NO_STDIO
int SSL_SESSION_print_fp(FILE *fp, const SSL_SESSION *ses);
# endif
int SSL_SESSION_print(BIO *fp, const SSL_SESSION *ses);
int SSL_SESSION_print_keylog(BIO *bp, const SSL_SESSION *x);
int SSL_SESSION_up_ref(SSL_SESSION *ses);
void SSL_SESSION_free(SSL_SESSION *ses);
__owur int i2d_SSL_SESSION(const SSL_SESSION *in, unsigned char **pp);
__owur int SSL_set_session(SSL *to, SSL_SESSION *session);
int SSL_CTX_add_session(SSL_CTX *ctx, SSL_SESSION *session);
int SSL_CTX_remove_session(SSL_CTX *ctx, SSL_SESSION *session);
__owur int SSL_CTX_set_generate_session_id(SSL_CTX *ctx, GEN_SESSION_CB cb);
__owur int SSL_set_generate_session_id(SSL *s, GEN_SESSION_CB cb);
__owur int SSL_has_matching_session_id(const
```

```
 SSL *s,
                                const unsigned char *id,
                                unsigned int id_len);
SSL_SESSION *d2i_SSL_SESSION(SSL_SESSION **a, const unsigned char **pp,
                        long length);

# ifdef OPENSSL_X509_H
__owur X509 *SSL_get0_peer_certificate(const SSL *s);
__owur X509 *SSL_get1_peer_certificate(const SSL *s);
/* Deprecated in 3.0.0 */
#  ifndef OPENSSL_NO_DEPRECATED_3_0
#   define SSL_get_peer_certificate SSL_get1_peer_certificate
#  endif
# endif

__owur STACK_OF(X509) *SSL_get_peer_cert_chain(const SSL *s);

__owur int SSL_CTX_get_verify_mode(const SSL_CTX *ctx);
__owur int SSL_CTX_get_verify_depth(const SSL_CTX *ctx);
__owur SSL_verify_cb SSL_CTX_get_verify_callback(const SSL_CTX *ctx);
void SSL_CTX_set_verify(SSL_CTX *ctx, int mode, SSL_verify_cb callback);
void SSL_CTX_set_verify_depth(SSL_CTX *ctx, int depth);
void SSL_CTX_set_cert_verify_callback(SSL_CTX *ctx,
                                int (*cb)
 (X509_STORE_CTX *, void *),
                                void *arg);
void SSL_CTX_set_cert_cb(SSL_CTX *c, int (*cb) (SSL *ssl, void *arg),
                    void *arg);
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0
__owur int SSL_CTX_use_RSAPrivateKey(SSL_CTX *ctx, RSA *rsa);
OSSL_DEPRECATEDIN_3_0
__owur int SSL_CTX_use_RSAPrivateKey_ASN1(SSL_CTX *ctx, const unsigned char *d,
                                  long len);
# endif
__owur int SSL_CTX_use_PrivateKey(SSL_CTX *ctx, EVP_PKEY *pkey);
__owur int SSL_CTX_use_PrivateKey_ASN1(int pk, SSL_CTX *ctx,
                                const unsigned char *d, long len);
__owur int SSL_CTX_use_certificate(SSL_CTX *ctx, X509 *x);
__owur int SSL_CTX_use_certificate_ASN1(SSL_CTX *ctx, int len,
                                 const unsigned char *d);
__owur int SSL_CTX_use_cert_and_key(SSL_CTX *ctx, X509 *x509, EVP_PKEY *privatekey,
                               STACK_OF(X509) *chain,
 int override);

void SSL_CTX_set_default_passwd_cb(SSL_CTX *ctx, pem_password_cb *cb);
void SSL_CTX_set_default_passwd_cb_userdata(SSL_CTX *ctx, void *u);
pem_password_cb *SSL_CTX_get_default_passwd_cb(SSL_CTX *ctx);
```

```
void *SSL_CTX_get_default_passwd_cb_userdata(SSL_CTX *ctx);
void SSL_set_default_passwd_cb(SSL *s, pem_password_cb *cb);
void SSL_set_default_passwd_cb_userdata(SSL *s, void *u);
pem_password_cb *SSL_get_default_passwd_cb(SSL *s);
void *SSL_get_default_passwd_cb_userdata(SSL *s);

__owur int SSL_CTX_check_private_key(const SSL_CTX *ctx);
__owur int SSL_check_private_key(const SSL *ctx);

__owur int SSL_CTX_set_session_id_context(SSL_CTX *ctx,
                                          const unsigned char *sid_ctx,
                                          unsigned int sid_ctx_len);

SSL *SSL_new(SSL_CTX *ctx);
int SSL_up_ref(SSL *s);
int SSL_is_dtls(const SSL *s);
__owur int SSL_set_session_id_context(SSL *ssl, const unsigned char *sid_ctx,

     unsigned int sid_ctx_len);

__owur int SSL_CTX_set_purpose(SSL_CTX *ctx, int purpose);
__owur int SSL_set_purpose(SSL *ssl, int purpose);
__owur int SSL_CTX_set_trust(SSL_CTX *ctx, int trust);
__owur int SSL_set_trust(SSL *ssl, int trust);

__owur int SSL_set1_host(SSL *s, const char *hostname);
__owur int SSL_add1_host(SSL *s, const char *hostname);
__owur const char *SSL_get0_peername(SSL *s);
void SSL_set_hostflags(SSL *s, unsigned int flags);

__owur int SSL_CTX_dane_enable(SSL_CTX *ctx);
__owur int SSL_CTX_dane_mtype_set(SSL_CTX *ctx, const EVP_MD *md,
                                  uint8_t mtype, uint8_t ord);
__owur int SSL_dane_enable(SSL *s, const char *basedomain);
__owur int SSL_dane_tlsa_add(SSL *s, uint8_t usage, uint8_t selector,
                             uint8_t mtype, const unsigned char *data, size_t dlen);
__owur int SSL_get0_dane_authority(SSL *s, X509 **mcert, EVP_PKEY **mspki);
__owur int SSL_get0_dane_tlsa(SSL *s, uint8_t *usage, uint8_t *selector,

                              uint8_t *mtype, const unsigned char **data,
                              size_t *dlen);
/*
* Bridge opacity barrier between libcrypt and libssl, also needed to support
* offline testing in test/danetest.c
*/
SSL_DANE *SSL_get0_dane(SSL *ssl);
/*
* DANE flags
```

```
*/
unsigned long SSL_CTX_dane_set_flags(SSL_CTX *ctx, unsigned long flags);
unsigned long SSL_CTX_dane_clear_flags(SSL_CTX *ctx, unsigned long flags);
unsigned long SSL_dane_set_flags(SSL *ssl, unsigned long flags);
unsigned long SSL_dane_clear_flags(SSL *ssl, unsigned long flags);

__owur int SSL_CTX_set1_param(SSL_CTX *ctx, X509_VERIFY_PARAM *vpm);
__owur int SSL_set1_param(SSL *ssl, X509_VERIFY_PARAM *vpm);

__owur X509_VERIFY_PARAM *SSL_CTX_get0_param(SSL_CTX *ctx);
__owur X509_VERIFY_PARAM *SSL_get0_param(SSL *ssl);

# ifndef OPENSSL_NO_SRP
#  ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 int SSL_CTX_set_srp_username(SSL_CTX *ctx, char *name);
OSSL_DEPRECATEDIN_3_0 int SSL_CTX_set_srp_password(SSL_CTX
 *ctx, char *password);
OSSL_DEPRECATEDIN_3_0 int SSL_CTX_set_srp_strength(SSL_CTX *ctx, int strength);
OSSL_DEPRECATEDIN_3_0
int SSL_CTX_set_srp_client_pwd_callback(SSL_CTX *ctx,
                                        char *(*cb) (SSL *, void *));
OSSL_DEPRECATEDIN_3_0
int SSL_CTX_set_srp_verify_param_callback(SSL_CTX *ctx,
                                          int (*cb) (SSL *, void *));
OSSL_DEPRECATEDIN_3_0
int SSL_CTX_set_srp_username_callback(SSL_CTX *ctx,
                                      int (*cb) (SSL *, int *, void *));
OSSL_DEPRECATEDIN_3_0 int SSL_CTX_set_srp_cb_arg(SSL_CTX *ctx, void *arg);

OSSL_DEPRECATEDIN_3_0
int SSL_set_srp_server_param(SSL *s, const BIGNUM *N, const BIGNUM *g,
                             BIGNUM *sa, BIGNUM *v, char *info);
OSSL_DEPRECATEDIN_3_0
int SSL_set_srp_server_param_pw(SSL *s, const char *user, const char *pass,
                                const char *grp);

OSSL_DEPRECATEDIN_3_0 __owur BIGNUM *SSL_get_srp_g(SSL *s);
OSSL_DEPRECATEDIN_3_0
 __owur BIGNUM *SSL_get_srp_N(SSL *s);

OSSL_DEPRECATEDIN_3_0 __owur char *SSL_get_srp_username(SSL *s);
OSSL_DEPRECATEDIN_3_0 __owur char *SSL_get_srp_userinfo(SSL *s);
#  endif
# endif

/*
* ClientHello callback and helpers.
*/
```

```
# define SSL_CLIENT_HELLO_SUCCESS 1
# define SSL_CLIENT_HELLO_ERROR   0
# define SSL_CLIENT_HELLO_RETRY   (-1)

typedef int (*SSL_client_hello_cb_fn) (SSL *s, int *al, void *arg);
void SSL_CTX_set_client_hello_cb(SSL_CTX *c, SSL_client_hello_cb_fn cb,
                         void *arg);
int SSL_client_hello_isv2(SSL *s);
unsigned int SSL_client_hello_get0_legacy_version(SSL *s);
size_t SSL_client_hello_get0_random(SSL *s, const unsigned char **out);
size_t SSL_client_hello_get0_session_id(SSL *s, const unsigned char **out);
size_t SSL_client_hello_get0_ciphers(SSL *s, const unsigned char **out);
size_t SSL_client_hello_get0_compression_methods(SSL *s,
                                   const unsigned char **out);
int
 SSL_client_hello_get1_extensions_present(SSL *s, int **out, size_t *outlen);
int SSL_client_hello_get0_ext(SSL *s, unsigned int type,
                        const unsigned char **out, size_t *outlen);

void SSL_certs_clear(SSL *s);
void SSL_free(SSL *ssl);
# ifdef OSSL_ASYNC_FD
/*
* Windows application developer has to include windows.h to use these.
*/
__owur int SSL_waiting_for_async(SSL *s);
__owur int SSL_get_all_async_fds(SSL *s, OSSL_ASYNC_FD *fds, size_t *numfds);
__owur int SSL_get_changed_async_fds(SSL *s, OSSL_ASYNC_FD *addfd,
                             size_t *numaddfds, OSSL_ASYNC_FD *delfd,
                             size_t *numdelfds);
__owur int SSL_CTX_set_async_callback(SSL_CTX *ctx, SSL_async_callback_fn callback);
__owur int SSL_CTX_set_async_callback_arg(SSL_CTX *ctx, void *arg);
__owur int SSL_set_async_callback(SSL *s, SSL_async_callback_fn callback);
__owur int SSL_set_async_callback_arg(SSL *s, void *arg);
__owur int SSL_get_async_status(SSL
 *s, int *status);

# endif
__owur int SSL_accept(SSL *ssl);
__owur int SSL_stateless(SSL *s);
__owur int SSL_connect(SSL *ssl);
__owur int SSL_read(SSL *ssl, void *buf, int num);
__owur int SSL_read_ex(SSL *ssl, void *buf, size_t num, size_t *readbytes);

# define SSL_READ_EARLY_DATA_ERROR   0
# define SSL_READ_EARLY_DATA_SUCCESS 1
# define SSL_READ_EARLY_DATA_FINISH  2
```

```
__owur int SSL_read_early_data(SSL *s, void *buf, size_t num,
                               size_t *readbytes);
__owur int SSL_peek(SSL *ssl, void *buf, int num);
__owur int SSL_peek_ex(SSL *ssl, void *buf, size_t num, size_t *readbytes);
__owur ossl_ssize_t SSL_sendfile(SSL *s, int fd, off_t offset, size_t size,
                                 int flags);
__owur int SSL_write(SSL *ssl, const void *buf, int num);
__owur int SSL_write_ex(SSL *s, const void *buf, size_t num, size_t *written);
__owur int SSL_write_early_data(SSL *s, const void *buf, size_t num,
                                size_t *written);
long
 SSL_ctrl(SSL *ssl, int cmd, long larg, void *parg);
long SSL_callback_ctrl(SSL *, int, void (*)(void));
long SSL_CTX_ctrl(SSL_CTX *ctx, int cmd, long larg, void *parg);
long SSL_CTX_callback_ctrl(SSL_CTX *, int, void (*)(void));

# define SSL_EARLY_DATA_NOT_SENT    0
# define SSL_EARLY_DATA_REJECTED    1
# define SSL_EARLY_DATA_ACCEPTED    2

__owur int SSL_get_early_data_status(const SSL *s);

__owur int SSL_get_error(const SSL *s, int ret_code);
__owur const char *SSL_get_version(const SSL *s);

/* This sets the 'default' SSL version that SSL_new() will create */
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0
__owur int SSL_CTX_set_ssl_version(SSL_CTX *ctx, const SSL_METHOD *meth);
# endif

# ifndef OPENSSL_NO_SSL3_METHOD
#  ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *SSLv3_method(void); /* SSLv3 */
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *SSLv3_server_method(void);
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *SSLv3_client_method(void);
#
  endif
# endif

#define SSLv23_method           TLS_method
#define SSLv23_server_method    TLS_server_method
#define SSLv23_client_method    TLS_client_method

/* Negotiate highest available SSL/TLS version */
__owur const SSL_METHOD *TLS_method(void);
__owur const SSL_METHOD *TLS_server_method(void);
```

```
__owur const SSL_METHOD *TLS_client_method(void);

# ifndef OPENSSL_NO_TLS1_METHOD
#  ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_method(void); /* TLSv1.0 */
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_server_method(void);
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_client_method(void);
#  endif
# endif

# ifndef OPENSSL_NO_TLS1_1_METHOD
#  ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_1_method(void); /* TLSv1.1 */
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_1_server_method(void);
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_1_client_method(void);
#
  endif
# endif

# ifndef OPENSSL_NO_TLS1_2_METHOD
#  ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_2_method(void); /* TLSv1.2 */
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_2_server_method(void);
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *TLSv1_2_client_method(void);
#  endif
# endif

# ifndef OPENSSL_NO_DTLS1_METHOD
#  ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *DTLSv1_method(void); /* DTLSv1.0 */
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *DTLSv1_server_method(void);
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *DTLSv1_client_method(void);
#  endif
# endif

# ifndef OPENSSL_NO_DTLS1_2_METHOD
/* DTLSv1.2 */
#  ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *DTLSv1_2_method(void);
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *DTLSv1_2_server_method(void);
OSSL_DEPRECATEDIN_1_1_0 __owur const SSL_METHOD *DTLSv1_2_client_method(void);
#
  endif
# endif

__owur const SSL_METHOD *DTLS_method(void); /* DTLS 1.0 and 1.2 */
__owur const SSL_METHOD *DTLS_server_method(void); /* DTLS 1.0 and 1.2 */
__owur const SSL_METHOD *DTLS_client_method(void); /* DTLS 1.0 and 1.2 */
```

```
__owur size_t DTLS_get_data_mtu(const SSL *s);

__owur STACK_OF(SSL_CIPHER) *SSL_get_ciphers(const SSL *s);
__owur STACK_OF(SSL_CIPHER) *SSL_CTX_get_ciphers(const SSL_CTX *ctx);
__owur STACK_OF(SSL_CIPHER) *SSL_get_client_ciphers(const SSL *s);
__owur STACK_OF(SSL_CIPHER) *SSL_get1_supported_ciphers(SSL *s);

__owur int SSL_do_handshake(SSL *s);
int SSL_key_update(SSL *s, int updatetype);
int SSL_get_key_update_type(const SSL *s);
int SSL_renegotiate(SSL *s);
int SSL_renegotiate_abbreviated(SSL *s);
__owur int SSL_renegotiate_pending(const SSL *s);
int SSL_new_session_ticket(SSL *s);
int SSL_shutdown(SSL *s);
__owur int SSL_verify_client_post_handshake(SSL *s);
void SSL_CTX_set_post_handshake_auth(SSL_CTX *ctx, int val);
void SSL_set_post_handshake_auth(SSL
 *s, int val);

__owur const SSL_METHOD *SSL_CTX_get_ssl_method(const SSL_CTX *ctx);
__owur const SSL_METHOD *SSL_get_ssl_method(const SSL *s);
__owur int SSL_set_ssl_method(SSL *s, const SSL_METHOD *method);
__owur const char *SSL_alert_type_string_long(int value);
__owur const char *SSL_alert_type_string(int value);
__owur const char *SSL_alert_desc_string_long(int value);
__owur const char *SSL_alert_desc_string(int value);

void SSL_set0_CA_list(SSL *s, STACK_OF(X509_NAME) *name_list);
void SSL_CTX_set0_CA_list(SSL_CTX *ctx, STACK_OF(X509_NAME) *name_list);
__owur const STACK_OF(X509_NAME) *SSL_get0_CA_list(const SSL *s);
__owur const STACK_OF(X509_NAME) *SSL_CTX_get0_CA_list(const SSL_CTX *ctx);
__owur int SSL_add1_to_CA_list(SSL *ssl, const X509 *x);
__owur int SSL_CTX_add1_to_CA_list(SSL_CTX *ctx, const X509 *x);
__owur const STACK_OF(X509_NAME) *SSL_get0_peer_CA_list(const SSL *s);

void SSL_set_client_CA_list(SSL *s, STACK_OF(X509_NAME) *name_list);
void SSL_CTX_set_client_CA_list(SSL_CTX
 *ctx, STACK_OF(X509_NAME) *name_list);
__owur STACK_OF(X509_NAME) *SSL_get_client_CA_list(const SSL *s);
__owur STACK_OF(X509_NAME) *SSL_CTX_get_client_CA_list(const SSL_CTX *s);
__owur int SSL_add_client_CA(SSL *ssl, X509 *x);
__owur int SSL_CTX_add_client_CA(SSL_CTX *ctx, X509 *x);

void SSL_set_connect_state(SSL *s);
void SSL_set_accept_state(SSL *s);
```

```
__owur long SSL_get_default_timeout(const SSL *s);

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define SSL_library_init() OPENSSL_init_ssl(0, NULL)
# endif

__owur char *SSL_CIPHER_description(const SSL_CIPHER *, char *buf, int size);
__owur STACK_OF(X509_NAME) *SSL_dup_CA_list(const STACK_OF(X509_NAME) *sk);

__owur SSL *SSL_dup(SSL *ssl);

__owur X509 *SSL_get_certificate(const SSL *ssl);
/*
* EVP_PKEY
*/
struct evp_pkey_st *SSL_get_privatekey(const SSL *ssl);

__owur X509 *SSL_CTX_get0_certificate(const SSL_CTX *ctx);
__owur EVP_PKEY *SSL_CTX_get0_privatekey(const SSL_CTX *ctx);

void SSL_CTX_set_quiet_shutdown(SSL_CTX
 *ctx, int mode);
__owur int SSL_CTX_get_quiet_shutdown(const SSL_CTX *ctx);
void SSL_set_quiet_shutdown(SSL *ssl, int mode);
__owur int SSL_get_quiet_shutdown(const SSL *ssl);
void SSL_set_shutdown(SSL *ssl, int mode);
__owur int SSL_get_shutdown(const SSL *ssl);
__owur int SSL_version(const SSL *ssl);
__owur int SSL_client_version(const SSL *s);
__owur int SSL_CTX_set_default_verify_paths(SSL_CTX *ctx);
__owur int SSL_CTX_set_default_verify_dir(SSL_CTX *ctx);
__owur int SSL_CTX_set_default_verify_file(SSL_CTX *ctx);
__owur int SSL_CTX_set_default_verify_store(SSL_CTX *ctx);
__owur int SSL_CTX_load_verify_file(SSL_CTX *ctx, const char *CAfile);
__owur int SSL_CTX_load_verify_dir(SSL_CTX *ctx, const char *CApath);
__owur int SSL_CTX_load_verify_store(SSL_CTX *ctx, const char *CAstore);
__owur int SSL_CTX_load_verify_locations(SSL_CTX *ctx,
                                         const char *CAfile,
                                         const
 char *CApath);
# define SSL_get0_session SSL_get_session/* just peek at pointer */
__owur SSL_SESSION *SSL_get_session(const SSL *ssl);
__owur SSL_SESSION *SSL_get1_session(SSL *ssl); /* obtain a reference count */
__owur SSL_CTX *SSL_get_SSL_CTX(const SSL *ssl);
SSL_CTX *SSL_set_SSL_CTX(SSL *ssl, SSL_CTX *ctx);
void SSL_set_info_callback(SSL *ssl,
                           void (*cb) (const SSL *ssl, int type, int val));
void (*SSL_get_info_callback(const SSL *ssl)) (const SSL *ssl, int type,
```

```
                                int val);
__owur OSSL_HANDSHAKE_STATE SSL_get_state(const SSL *ssl);

void SSL_set_verify_result(SSL *ssl, long v);
__owur long SSL_get_verify_result(const SSL *ssl);
__owur STACK_OF(X509) *SSL_get0_verified_chain(const SSL *s);

__owur size_t SSL_get_client_random(const SSL *ssl, unsigned char *out,
                            size_t outlen);
__owur size_t SSL_get_server_random(const SSL *ssl, unsigned char *out,

            size_t outlen);
__owur size_t SSL_SESSION_get_master_key(const SSL_SESSION *sess,
                              unsigned char *out, size_t outlen);
__owur int SSL_SESSION_set1_master_key(SSL_SESSION *sess,
                             const unsigned char *in, size_t len);
uint8_t SSL_SESSION_get_max_fragment_length(const SSL_SESSION *sess);

#define SSL_get_ex_new_index(l, p, newf, dupf, freef) \
  CRYPTO_get_ex_new_index(CRYPTO_EX_INDEX_SSL, l, p, newf, dupf, freef)
__owur int SSL_set_ex_data(SSL *ssl, int idx, void *data);
void *SSL_get_ex_data(const SSL *ssl, int idx);
#define SSL_SESSION_get_ex_new_index(l, p, newf, dupf, freef) \
  CRYPTO_get_ex_new_index(CRYPTO_EX_INDEX_SSL_SESSION, l, p, newf, dupf, freef)
__owur int SSL_SESSION_set_ex_data(SSL_SESSION *ss, int idx, void *data);
void *SSL_SESSION_get_ex_data(const SSL_SESSION *ss, int idx);
#define SSL_CTX_get_ex_new_index(l, p, newf, dupf, freef) \
  CRYPTO_get_ex_new_index(CRYPTO_EX_INDEX_SSL_CTX,
 l, p, newf, dupf, freef)
__owur int SSL_CTX_set_ex_data(SSL_CTX *ssl, int idx, void *data);
void *SSL_CTX_get_ex_data(const SSL_CTX *ssl, int idx);

__owur int SSL_get_ex_data_X509_STORE_CTX_idx(void);

# define SSL_CTX_sess_set_cache_size(ctx,t) \
     SSL_CTX_ctrl(ctx,SSL_CTRL_SET_SESS_CACHE_SIZE,t,NULL)
# define SSL_CTX_sess_get_cache_size(ctx) \
     SSL_CTX_ctrl(ctx,SSL_CTRL_GET_SESS_CACHE_SIZE,0,NULL)
# define SSL_CTX_set_session_cache_mode(ctx,m) \
     SSL_CTX_ctrl(ctx,SSL_CTRL_SET_SESS_CACHE_MODE,m,NULL)
# define SSL_CTX_get_session_cache_mode(ctx) \
     SSL_CTX_ctrl(ctx,SSL_CTRL_GET_SESS_CACHE_MODE,0,NULL)

# define SSL_CTX_get_default_read_ahead(ctx) SSL_CTX_get_read_ahead(ctx)
# define SSL_CTX_set_default_read_ahead(ctx,m) SSL_CTX_set_read_ahead(ctx,m)
# define SSL_CTX_get_read_ahead(ctx) \
     SSL_CTX_ctrl(ctx,SSL_CTRL_GET_READ_AHEAD,0,NULL)
# define SSL_CTX_set_read_ahead(ctx,m) \
```

```
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_READ_AHEAD,m,NULL)
# define
 SSL_CTX_get_max_cert_list(ctx) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_GET_MAX_CERT_LIST,0,NULL)
# define SSL_CTX_set_max_cert_list(ctx,m) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_MAX_CERT_LIST,m,NULL)
# define SSL_get_max_cert_list(ssl) \
    SSL_ctrl(ssl,SSL_CTRL_GET_MAX_CERT_LIST,0,NULL)
# define SSL_set_max_cert_list(ssl,m) \
    SSL_ctrl(ssl,SSL_CTRL_SET_MAX_CERT_LIST,m,NULL)

# define SSL_CTX_set_max_send_fragment(ctx,m) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_MAX_SEND_FRAGMENT,m,NULL)
# define SSL_set_max_send_fragment(ssl,m) \
    SSL_ctrl(ssl,SSL_CTRL_SET_MAX_SEND_FRAGMENT,m,NULL)
# define SSL_CTX_set_split_send_fragment(ctx,m) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_SPLIT_SEND_FRAGMENT,m,NULL)
# define SSL_set_split_send_fragment(ssl,m) \
    SSL_ctrl(ssl,SSL_CTRL_SET_SPLIT_SEND_FRAGMENT,m,NULL)
# define SSL_CTX_set_max_pipelines(ctx,m) \
    SSL_CTX_ctrl(ctx,SSL_CTRL_SET_MAX_PIPELINES,m,NULL)
# define SSL_set_max_pipelines(ssl,m) \
    SSL_ctrl(ssl,SSL_CTRL_SET_MAX_PIPELINES,m,NULL)
#
 define SSL_set_retry_verify(ssl) \
    (SSL_ctrl(ssl,SSL_CTRL_SET_RETRY_VERIFY,0,NULL) > 0)

void SSL_CTX_set_default_read_buffer_len(SSL_CTX *ctx, size_t len);
void SSL_set_default_read_buffer_len(SSL *s, size_t len);

# ifndef OPENSSL_NO_DH
#  ifndef OPENSSL_NO_DEPRECATED_3_0
/* NB: the |keylength| is only applicable when is_export is true */
OSSL_DEPRECATEDIN_3_0
void SSL_CTX_set_tmp_dh_callback(SSL_CTX *ctx,
                         DH *(*dh) (SSL *ssl, int is_export,
                                    int keylength));
OSSL_DEPRECATEDIN_3_0
void SSL_set_tmp_dh_callback(SSL *ssl,
                       DH *(*dh) (SSL *ssl, int is_export,
                                  int keylength));
#  endif
# endif

__owur const COMP_METHOD *SSL_get_current_compression(const SSL *s);
__owur const COMP_METHOD *SSL_get_current_expansion(const SSL *s);
__owur const char *SSL_COMP_get_name(const COMP_METHOD *comp);
__owur const char *SSL_COMP_get0_name(const
```

```
 SSL_COMP *comp);
__owur int SSL_COMP_get_id(const SSL_COMP *comp);
STACK_OF(SSL_COMP) *SSL_COMP_get_compression_methods(void);
__owur STACK_OF(SSL_COMP) *SSL_COMP_set0_compression_methods(STACK_OF(SSL_COMP)
                                                *meths);
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define SSL_COMP_free_compression_methods() while(0) continue
# endif
__owur int SSL_COMP_add_compression_method(int id, COMP_METHOD *cm);

const SSL_CIPHER *SSL_CIPHER_find(SSL *ssl, const unsigned char *ptr);
int SSL_CIPHER_get_cipher_nid(const SSL_CIPHER *c);
int SSL_CIPHER_get_digest_nid(const SSL_CIPHER *c);
int SSL_bytes_to_cipher_list(SSL *s, const unsigned char *bytes, size_t len,
                             int isv2format, STACK_OF(SSL_CIPHER) **sk,
                             STACK_OF(SSL_CIPHER) **scsvs);

/* TLS extensions functions */
__owur int SSL_set_session_ticket_ext(SSL *s, void *ext_data, int ext_len);

__owur int SSL_set_session_ticket_ext_cb(SSL
 *s,
                                         tls_session_ticket_ext_cb_fn cb,
                                         void *arg);

/* Pre-shared secret session resumption functions */
__owur int SSL_set_session_secret_cb(SSL *s,
                                     tls_session_secret_cb_fn session_secret_cb,
                                     void *arg);

void SSL_CTX_set_not_resumable_session_callback(SSL_CTX *ctx,
                                                int (*cb) (SSL *ssl,
                                                           int
                                                           is_forward_secure));

void SSL_set_not_resumable_session_callback(SSL *ssl,
                                            int (*cb) (SSL *ssl,
                                                       int is_forward_secure));

void SSL_CTX_set_record_padding_callback(SSL_CTX *ctx,
                                         size_t (*cb) (SSL *ssl, int type,

                                          size_t len, void *arg));
void SSL_CTX_set_record_padding_callback_arg(SSL_CTX *ctx, void *arg);
void *SSL_CTX_get_record_padding_callback_arg(const SSL_CTX *ctx);
int SSL_CTX_set_block_padding(SSL_CTX *ctx, size_t block_size);

int SSL_set_record_padding_callback(SSL *ssl,
```

```
                                size_t (*cb) (SSL *ssl, int type,
                                              size_t len, void *arg));
void SSL_set_record_padding_callback_arg(SSL *ssl, void *arg);
void *SSL_get_record_padding_callback_arg(const SSL *ssl);
int SSL_set_block_padding(SSL *ssl, size_t block_size);

int SSL_set_num_tickets(SSL *s, size_t num_tickets);
size_t SSL_get_num_tickets(const SSL *s);
int SSL_CTX_set_num_tickets(SSL_CTX *ctx, size_t num_tickets);
size_t SSL_CTX_get_num_tickets(const SSL_CTX *ctx);

# ifndef OPENSSL_NO_DEPRECATED_1_1_0
#  define SSL_cache_hit(s) SSL_session_reused(s)
# endif

__owur int SSL_session_reused(const SSL *s);
__owur int
 SSL_is_server(const SSL *s);

__owur __owur SSL_CONF_CTX *SSL_CONF_CTX_new(void);
int SSL_CONF_CTX_finish(SSL_CONF_CTX *cctx);
void SSL_CONF_CTX_free(SSL_CONF_CTX *cctx);
unsigned int SSL_CONF_CTX_set_flags(SSL_CONF_CTX *cctx, unsigned int flags);
__owur unsigned int SSL_CONF_CTX_clear_flags(SSL_CONF_CTX *cctx,
                                             unsigned int flags);
__owur int SSL_CONF_CTX_set1_prefix(SSL_CONF_CTX *cctx, const char *pre);

void SSL_CONF_CTX_set_ssl(SSL_CONF_CTX *cctx, SSL *ssl);
void SSL_CONF_CTX_set_ssl_ctx(SSL_CONF_CTX *cctx, SSL_CTX *ctx);

__owur int SSL_CONF_cmd(SSL_CONF_CTX *cctx, const char *cmd, const char *value);
__owur int SSL_CONF_cmd_argv(SSL_CONF_CTX *cctx, int *pargc, char ***pargv);
__owur int SSL_CONF_cmd_value_type(SSL_CONF_CTX *cctx, const char *cmd);

void SSL_add_ssl_module(void);
int SSL_config(SSL *s, const char *name);
int SSL_CTX_config(SSL_CTX *ctx, const char *name);

# ifndef OPENSSL_NO_SSL_TRACE
void SSL_trace(int write_p, int version,
 int content_type,
            const void *buf, size_t len, SSL *ssl, void *arg);
# endif

# ifndef OPENSSL_NO_SOCK
int DTLSv1_listen(SSL *s, BIO_ADDR *client);
# endif
```

```
# ifndef OPENSSL_NO_CT

/*
* A callback for verifying that the received SCTs are sufficient.
* Expected to return 1 if they are sufficient, otherwise 0.
* May return a negative integer if an error occurs.
* A connection should be aborted if the SCTs are deemed insufficient.
*/
typedef int (*ssl_ct_validation_cb)(const CT_POLICY_EVAL_CTX *ctx,
                                    const STACK_OF(SCT) *scts, void *arg);

/*
* Sets a |callback| that is invoked upon receipt of ServerHelloDone to validate
* the received SCTs.
* If the callback returns a non-positive result, the connection is terminated.
* Call this function before beginning a handshake.
* If a NULL |callback| is provided, SCT validation is disabled.
* |arg| is arbitrary userdata that will be passed to the callback whenever it
* is invoked.
 Ownership of |arg| remains with the caller.
*
* NOTE: A side-effect of setting a CT callback is that an OCSP stapled response
*       will be requested.
*/
int SSL_set_ct_validation_callback(SSL *s, ssl_ct_validation_cb callback,
                                   void *arg);
int SSL_CTX_set_ct_validation_callback(SSL_CTX *ctx,
                                       ssl_ct_validation_cb callback,
                                       void *arg);
#define SSL_disable_ct(s) \
      ((void) SSL_set_validation_callback((s), NULL, NULL))
#define SSL_CTX_disable_ct(ctx) \
      ((void) SSL_CTX_set_validation_callback((ctx), NULL, NULL))

/*
* The validation type enumerates the available behaviours of the built-in SSL
* CT validation callback selected via SSL_enable_ct() and SSL_CTX_enable_ct().
* The underlying callback is a static function in libssl.
*/
enum {
   SSL_CT_VALIDATION_PERMISSIVE = 0,
   SSL_CT_VALIDATION_STRICT
};

/*
* Enable CT by setting up a callback that implements
 one of the built-in
* validation variants.  The SSL_CT_VALIDATION_PERMISSIVE variant always
```

```
* continues the handshake, the application can make appropriate decisions at
* handshake completion.  The SSL_CT_VALIDATION_STRICT variant requires at
* least one valid SCT, or else handshake termination will be requested.  The
* handshake may continue anyway if SSL_VERIFY_NONE is in effect.
*/
int SSL_enable_ct(SSL *s, int validation_mode);
int SSL_CTX_enable_ct(SSL_CTX *ctx, int validation_mode);

/*
* Report whether a non-NULL callback is enabled.
*/
int SSL_ct_is_enabled(const SSL *s);
int SSL_CTX_ct_is_enabled(const SSL_CTX *ctx);

/* Gets the SCTs received from a connection */
const STACK_OF(SCT) *SSL_get0_peer_scts(SSL *s);

/*
* Loads the CT log list from the default location.
* If a CTLOG_STORE has previously been set using SSL_CTX_set_ctlog_store,
* the log information loaded from this file will be appended to the
* CTLOG_STORE.
* Returns 1 on success, 0 otherwise.
 */
int SSL_CTX_set_default_ctlog_list_file(SSL_CTX *ctx);

/*
* Loads the CT log list from the specified file path.
* If a CTLOG_STORE has previously been set using SSL_CTX_set_ctlog_store,
* the log information loaded from this file will be appended to the
* CTLOG_STORE.
* Returns 1 on success, 0 otherwise.
*/
int SSL_CTX_set_ctlog_list_file(SSL_CTX *ctx, const char *path);

/*
* Sets the CT log list used by all SSL connections created from this SSL_CTX.
* Ownership of the CTLOG_STORE is transferred to the SSL_CTX.
*/
void SSL_CTX_set0_ctlog_store(SSL_CTX *ctx, CTLOG_STORE *logs);

/*
* Gets the CT log list used by all SSL connections created from this SSL_CTX.
* This will be NULL unless one of the following functions has been called:
* - SSL_CTX_set_default_ctlog_list_file
* - SSL_CTX_set_ctlog_list_file
* - SSL_CTX_set_ctlog_store
*/
```

```
const CTLOG_STORE *SSL_CTX_get0_ctlog_store(const SSL_CTX *ctx);

# endif /* OPENSSL_NO_CT */

/* What the "other" parameter contains
 in security callback */
/* Mask for type */
# define SSL_SECOP_OTHER_TYPE    0xffff0000
# define SSL_SECOP_OTHER_NONE    0
# define SSL_SECOP_OTHER_CIPHER  (1 << 16)
# define SSL_SECOP_OTHER_CURVE   (2 << 16)
# define SSL_SECOP_OTHER_DH      (3 << 16)
# define SSL_SECOP_OTHER_PKEY    (4 << 16)
# define SSL_SECOP_OTHER_SIGALG  (5 << 16)
# define SSL_SECOP_OTHER_CERT    (6 << 16)

/* Indicated operation refers to peer key or certificate */
# define SSL_SECOP_PEER          0x1000

/* Values for "op" parameter in security callback */

/* Called to filter ciphers */
/* Ciphers client supports */
# define SSL_SECOP_CIPHER_SUPPORTED      (1 | SSL_SECOP_OTHER_CIPHER)
/* Cipher shared by client/server */
# define SSL_SECOP_CIPHER_SHARED         (2 | SSL_SECOP_OTHER_CIPHER)
/* Sanity check of cipher server selects */
# define SSL_SECOP_CIPHER_CHECK          (3 | SSL_SECOP_OTHER_CIPHER)
/* Curves supported by client */
# define SSL_SECOP_CURVE_SUPPORTED       (4 | SSL_SECOP_OTHER_CURVE)
/* Curves
 shared by client/server */
# define SSL_SECOP_CURVE_SHARED          (5 | SSL_SECOP_OTHER_CURVE)
/* Sanity check of curve server selects */
# define SSL_SECOP_CURVE_CHECK           (6 | SSL_SECOP_OTHER_CURVE)
/* Temporary DH key */
# define SSL_SECOP_TMP_DH                (7 | SSL_SECOP_OTHER_PKEY)
/* SSL/TLS version */
# define SSL_SECOP_VERSION               (9 | SSL_SECOP_OTHER_NONE)
/* Session tickets */
# define SSL_SECOP_TICKET                (10 | SSL_SECOP_OTHER_NONE)
/* Supported signature algorithms sent to peer */
# define SSL_SECOP_SIGALG_SUPPORTED      (11 | SSL_SECOP_OTHER_SIGALG)
/* Shared signature algorithm */
# define SSL_SECOP_SIGALG_SHARED         (12 | SSL_SECOP_OTHER_SIGALG)
/* Sanity check signature algorithm allowed */
# define SSL_SECOP_SIGALG_CHECK          (13 | SSL_SECOP_OTHER_SIGALG)
/* Used to get mask of supported public key signature algorithms */
```

```
# define SSL_SECOP_SIGALG_MASK          (14 | SSL_SECOP_OTHER_SIGALG)
/* Use to see if compression is allowed
 */
# define SSL_SECOP_COMPRESSION          (15 | SSL_SECOP_OTHER_NONE)
/* EE key in certificate */
# define SSL_SECOP_EE_KEY               (16 | SSL_SECOP_OTHER_CERT)
/* CA key in certificate */
# define SSL_SECOP_CA_KEY               (17 | SSL_SECOP_OTHER_CERT)
/* CA digest algorithm in certificate */
# define SSL_SECOP_CA_MD                (18 | SSL_SECOP_OTHER_CERT)
/* Peer EE key in certificate */
# define SSL_SECOP_PEER_EE_KEY          (SSL_SECOP_EE_KEY | SSL_SECOP_PEER)
/* Peer CA key in certificate */
# define SSL_SECOP_PEER_CA_KEY          (SSL_SECOP_CA_KEY | SSL_SECOP_PEER)
/* Peer CA digest algorithm in certificate */
# define SSL_SECOP_PEER_CA_MD           (SSL_SECOP_CA_MD | SSL_SECOP_PEER)

void SSL_set_security_level(SSL *s, int level);
__owur int SSL_get_security_level(const SSL *s);
void SSL_set_security_callback(SSL *s,
                               int (*cb) (const SSL *s, const SSL_CTX *ctx,
                                          int op, int bits, int nid,
                                          void *other, void *ex));
int (*SSL_get_security_callback(const SSL *s)) (const SSL *s,
                                                const SSL_CTX *ctx, int op,
                                                int bits, int nid, void *other,
                                                void *ex);
void SSL_set0_security_ex_data(SSL *s, void *ex);
__owur void *SSL_get0_security_ex_data(const SSL *s);

void SSL_CTX_set_security_level(SSL_CTX *ctx, int level);
__owur int SSL_CTX_get_security_level(const SSL_CTX *ctx);
void SSL_CTX_set_security_callback(SSL_CTX *ctx,
                                   int (*cb) (const SSL *s, const SSL_CTX *ctx,
                                              int op, int bits, int nid,
                                              void *other, void *ex));
int (*SSL_CTX_get_security_callback(const SSL_CTX *ctx)) (const SSL *s,
                                                          const SSL_CTX *ctx,

                                                         int op, int bits,
                                                          int nid,
                                                          void *other,
                                                          void *ex);
void SSL_CTX_set0_security_ex_data(SSL_CTX *ctx, void *ex);
__owur void *SSL_CTX_get0_security_ex_data(const SSL_CTX *ctx);

/* OPENSSL_INIT flag 0x010000 reserved for internal use */
# define OPENSSL_INIT_NO_LOAD_SSL_STRINGS    0x00100000L
```

```
# define OPENSSL_INIT_LOAD_SSL_STRINGS       0x00200000L

# define OPENSSL_INIT_SSL_DEFAULT \
      (OPENSSL_INIT_LOAD_SSL_STRINGS | OPENSSL_INIT_LOAD_CRYPTO_STRINGS)

int OPENSSL_init_ssl(uint64_t opts, const OPENSSL_INIT_SETTINGS *settings);

# ifndef OPENSSL_NO_UNIT_TEST
__owur const struct openssl_ssl_test_functions *SSL_test_functions(void);
# endif

__owur int SSL_free_buffers(SSL *ssl);
__owur int SSL_alloc_buffers(SSL *ssl);

/* Status codes passed to the decrypt session
 ticket callback. Some of these
* are for internal use only and are never passed to the callback. */
typedef int SSL_TICKET_STATUS;

/* Support for ticket appdata */
/* fatal error, malloc failure */
# define SSL_TICKET_FATAL_ERR_MALLOC 0
/* fatal error, either from parsing or decrypting the ticket */
# define SSL_TICKET_FATAL_ERR_OTHER  1
/* No ticket present */
# define SSL_TICKET_NONE             2
/* Empty ticket present */
# define SSL_TICKET_EMPTY            3
/* the ticket couldn't be decrypted */
# define SSL_TICKET_NO_DECRYPT       4
/* a ticket was successfully decrypted */
# define SSL_TICKET_SUCCESS          5
/* same as above but the ticket needs to be renewed */
# define SSL_TICKET_SUCCESS_RENEW    6

/* Return codes for the decrypt session ticket callback */
typedef int SSL_TICKET_RETURN;

/* An error occurred */
#define SSL_TICKET_RETURN_ABORT             0
/* Do not use the ticket, do not send a renewed ticket to the client */
#define SSL_TICKET_RETURN_IGNORE
      1
/* Do not use the ticket, send a renewed ticket to the client */
#define SSL_TICKET_RETURN_IGNORE_RENEW      2
/* Use the ticket, do not send a renewed ticket to the client */
#define SSL_TICKET_RETURN_USE               3
/* Use the ticket, send a renewed ticket to the client */
```

```
#define SSL_TICKET_RETURN_USE_RENEW        4

typedef int (*SSL_CTX_generate_session_ticket_fn)(SSL *s, void *arg);
typedef SSL_TICKET_RETURN (*SSL_CTX_decrypt_session_ticket_fn)(SSL *s, SSL_SESSION *ss,
                                        const unsigned char *keyname,
                                        size_t keyname_length,
                                        SSL_TICKET_STATUS status,
                                        void *arg);
int SSL_CTX_set_session_ticket_cb(SSL_CTX *ctx,
                          SSL_CTX_generate_session_ticket_fn gen_cb,
                          SSL_CTX_decrypt_session_ticket_fn
 dec_cb,
                          void *arg);
int SSL_SESSION_set1_ticket_appdata(SSL_SESSION *ss, const void *data, size_t len);
int SSL_SESSION_get0_ticket_appdata(SSL_SESSION *ss, void **data, size_t *len);

typedef unsigned int (*DTLS_timer_cb)(SSL *s, unsigned int timer_us);

void DTLS_set_timer_cb(SSL *s, DTLS_timer_cb cb);


typedef int (*SSL_allow_early_data_cb_fn)(SSL *s, void *arg);
void SSL_CTX_set_allow_early_data_cb(SSL_CTX *ctx,
                            SSL_allow_early_data_cb_fn cb,
                            void *arg);
void SSL_set_allow_early_data_cb(SSL *s,
                         SSL_allow_early_data_cb_fn cb,
                         void *arg);

/* store the default cipher strings inside the library */
const char *OSSL_default_cipher_list(void);
const char *OSSL_default_ciphersuites(void);

# ifdef  __cplusplus
}
# endif
#endif
# Protected File

Example of a protected file to be used in the PolicyDenyFs module
(The MIT License)

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```

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```
{
 'variables': {
   'openssl_defines_BSD-x86_64': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'AES_ASM',
     'BSAES_ASM',
     'CMLL_ASM',
     'ECP_NISTZ256_ASM',
     'GHASH_ASM',
     'KECCAK1600_ASM',
     'MD5_ASM',
```

```
  'OPENSSL_BN_ASM_GF2m',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'PADLOCK_ASM',
  'POLY1305_ASM',
  'RC4_ASM',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'VPAES_ASM',
  'WHIRLPOOL_ASM',
  'X25519_ASM',
  'OPENSSL_PIC',
],
'openssl_cflags_BSD-x86_64': [
  '-Wa,--noexecstack',
  '-Wall -O3',
  '-pthread',
  '-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
  '-pthread',
],
'openssl_cli_srcs_BSD-x86_64': [
  'openssl/apps/lib/cmp_mock_srv.c',
  'openssl/apps/asn1parse.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cmp.c',

 'openssl/apps/cms.c',
  'openssl/apps/crl.c',
  'openssl/apps/crl2pkcs7.c',
  'openssl/apps/dgst.c',
  'openssl/apps/dhparam.c',
  'openssl/apps/dsa.c',
  'openssl/apps/dsaparam.c',
  'openssl/apps/ec.c',
  'openssl/apps/ecparam.c',
  'openssl/apps/enc.c',
  'openssl/apps/engine.c',
  'openssl/apps/errstr.c',
  'openssl/apps/fipsinstall.c',
  'openssl/apps/gendsa.c',
  'openssl/apps/genpkey.c',
  'openssl/apps/genrsa.c',
```

'openssl/apps/info.c',
'openssl/apps/kdf.c',
'openssl/apps/list.c',
'openssl/apps/mac.c',
'openssl/apps/nseq.c',
'openssl/apps/ocsp.c',
'openssl/apps/openssl.c',
'openssl/apps/passwd.c',
'openssl/apps/pkcs12.c',
'openssl/apps/pkcs7.c',
'openssl/apps/pkcs8.c',
'openssl/apps/pkey.c',
'openssl/apps/pkeyparam.c',
'openssl/apps/pkeyutl.c',
'openssl/apps/prime.c',
'./config/archs/BSD-x86_64/asm/apps/progs.c',
'openssl/apps/rand.c',
'openssl/apps/rehash.c',
'openssl/apps/req.c',
'openssl/apps/rsa.c',
'openssl/apps/rsautl.c',
'openssl/apps/s_client.c',
'openssl/apps/s_server.c',
'openssl/apps/s_time.c',
'openssl/apps/sess_id.c',
'openssl/apps/smime.c',
'openssl/apps/speed.c',
'openssl/apps/spkac.c',
'openssl/apps/srp.c',
'openssl/apps/storeutl.c',
'openssl/apps/ts.c',
'openssl/apps/verify.c',
'openssl/apps/version.c',
'openssl/apps/x509.c',
'openssl/apps/lib/app_libctx.c',
'openssl/apps/lib/app_params.c',
'openssl/apps/lib/app_provider.c',
'openssl/apps/lib/app_rand.c',
'openssl/apps/lib/app_x509.c',
'openssl/apps/lib/apps.c',
'openssl/apps/lib/apps_ui.c',
'openssl/apps/lib/columns.c',
'openssl/apps/lib/engine.c',
'openssl/apps/lib/engine_loader.c',
'openssl/apps/lib/fmt.c',
'openssl/apps/lib/http_server.c',
'openssl/apps/lib/names.c',

```
      'openssl/apps/lib/opt.c',
     'openssl/apps/lib/s_cb.c',
     'openssl/apps/lib/s_socket.c',
     'openssl/apps/lib/tlssrp_depr.c',
   ],
 },
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'include_dirs': [
   './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
}
```

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```
{
 'variables': {
   'openssl_sources': [
     'openssl/ssl/bio_ssl.c',
     'openssl/ssl/d1_lib.c',
     'openssl/ssl/d1_msg.c',
     'openssl/ssl/d1_srtp.c',
     'openssl/ssl/methods.c',
     'openssl/ssl/pqueue.c',
     'openssl/ssl/s3_enc.c',
     'openssl/ssl/s3_lib.c',
```

'openssl/ssl/s3_msg.c',
'openssl/ssl/ssl_asn1.c',
'openssl/ssl/ssl_cert.c',
'openssl/ssl/ssl_ciph.c',
'openssl/ssl/ssl_conf.c',
'openssl/ssl/ssl_err.c',
'openssl/ssl/ssl_err_legacy.c',
'openssl/ssl/ssl_init.c',
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'openssl/crypto/aes/aes_misc.c',
'openssl/crypto/aes/aes_ofb.c',
'openssl/crypto/aes/aes_wrap.c',
'openssl/crypto/aria/aria.c',
'openssl/crypto/asn1/a_bitstr.c',
'openssl/crypto/asn1/a_d2i_fp.c',
'openssl/crypto/asn1/a_digest.c',

'openssl/crypto/asn1/a_dup.c',
'openssl/crypto/asn1/a_gentm.c',
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'openssl/crypto/asn1/asn1_item_list.c',
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'openssl/crypto/asn1/evp_asn1.c',
'openssl/crypto/asn1/f_int.c',
'openssl/crypto/asn1/f_string.c',
'openssl/crypto/asn1/i2d_evp.c',
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'openssl/crypto/bn/bn_const.c',
'openssl/crypto/bn/bn_conv.c',
'openssl/crypto/bn/bn_ctx.c',
'openssl/crypto/bn/bn_depr.c',
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'openssl/crypto/bn/rsaz_exp_x2.c',
'openssl/crypto/buffer/buf_err.c',
'openssl/crypto/buffer/buffer.c',
'openssl/crypto/camellia/cmll_cfb.c',
'openssl/crypto/camellia/cmll_ctr.c',
'openssl/crypto/camellia/cmll_ecb.c',
'openssl/crypto/camellia/cmll_misc.c',
'openssl/crypto/camellia/cmll_ofb.c',
'openssl/crypto/cast/c_cfb64.c',
'openssl/crypto/cast/c_ecb.c',
'openssl/crypto/cast/c_enc.c',

'openssl/crypto/cast/c_ofb64.c',
'openssl/crypto/cast/c_skey.c',
'openssl/crypto/cmac/cmac.c',
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'openssl/crypto/x509/v3_bcons.c',
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'openssl/crypto/x509/v3_conf.c',
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'openssl/crypto/x509/v3_ncons.c',

'openssl/crypto/x509/v3_pci.c',
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'openssl/crypto/x509/x_crl.c',
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'openssl/providers/implementations/encode_decode/decode_pem2der.c',
'openssl/providers/implementations/encode_decode/decode_pvk2key.c',
'openssl/providers/implementations/encode_decode/decode_spki2typespki.c',
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'openssl/providers/implementations/signature/sm2_sig.c',
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'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
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  'openssl/ssl/record/tls_pad.c',
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  'openssl/providers/implementations/ciphers/cipher_idea_hw.c',
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  'openssl/providers/implementations/ciphers/cipher_rc2_hw.c',
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  'openssl/providers/implementations/ciphers/cipher_rc4_hmac_md5_hw.c',
  'openssl/providers/implementations/ciphers/cipher_rc4_hw.c',
  'openssl/providers/implementations/ciphers/cipher_seed.c',
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  'openssl/providers/implementations/digests/mdc2_prov.c',
  'openssl/providers/implementations/digests/ripemd_prov.c',
  'openssl/providers/implementations/digests/wp_prov.c',
   'openssl/providers/implementations/kdfs/pbkdf1.c',
  'openssl/providers/prov_running.c',
  'openssl/providers/legacyprov.c',
],
'openssl_sources_BSD-x86_64': [
  './config/archs/BSD-x86_64/asm/crypto/aes/aes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/aesni-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/bsaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx2.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-avx512.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/rsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
   './config/archs/BSD-x86_64/asm/crypto/camellia/cmll-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
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  './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-mb-x86_64.s',
   './config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/whrlpool/wp-x86_64.s',
  './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86_64/asm/providers/legacy.ld',
  './config/archs/BSD-x86_64/asm/providers/fips.ld',
],
'openssl_defines_BSD-x86_64': [

  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_BUILDING_OPENSSL',
  'AES_ASM',
  'BSAES_ASM',
  'CMLL_ASM',
  'ECP_NISTZ256_ASM',
  'GHASH_ASM',
  'KECCAK1600_ASM',
  'MD5_ASM',
  'OPENSSL_BN_ASM_GF2m',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_MONT5',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'PADLOCK_ASM',
  'POLY1305_ASM',
  'RC4_ASM',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'VPAES_ASM',
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    'WHIRLPOOL_ASM',
    'X25519_ASM',
    'OPENSSL_PIC',
  ],
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    '-Wall -O3',
    '-pthread',
    '-Wall -O3',
  ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
 },
 'include_dirs': [
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  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
  'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
```

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JSON parsing library (nlohmann/json)

File: vendor/json/upstream/single_include/nlohmann/json.hpp (only for
 ICU4C)

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File: aclocal.m4 (only for ICU4C)
Section: pkg.m4 - Macros to locate and utilise pkg-config.

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```
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#define SRC_PERMISSION_FS_PERMISSION_H_

#if defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS

#include "v8.h"

#include <unordered_map>
#include "permission/permission_base.h"
#include "util.h"

namespace node {

namespace permission {

class FSPermission final : public PermissionBase {
public:
 void Apply(Environment* env,
            const std::vector<std::string>& allow,
            PermissionScope scope) override;
 bool is_granted(Environment* env,
                 PermissionScope perm,
                 const std::string_view& param) const override;

 struct RadixTree {
   struct Node {
     std::string prefix;
     std::unordered_map<char, Node*> children;
     Node* wildcard_child;
     bool is_leaf;

     explicit Node(const std::string& pre)
         : prefix(pre), wildcard_child(nullptr), is_leaf(false) {}

     Node() : wildcard_child(nullptr), is_leaf(false) {}

     Node* CreateChild(const std::string& path_prefix)
  {
       if (path_prefix.empty() && !is_leaf) {
         is_leaf = true;
         return this;
       }

       CHECK(!path_prefix.empty());
       char label = path_prefix[0];

       Node* child = children[label];
       if (child == nullptr) {
```

```
      children[label] = new Node(path_prefix);
      return children[label];
    }

    // swap prefix
    size_t i = 0;
    size_t prefix_len = path_prefix.length();
    for (; i < child->prefix.length(); ++i) {
      if (i > prefix_len || path_prefix[i] != child->prefix[i]) {
        std::string parent_prefix = child->prefix.substr(0, i);
        std::string child_prefix = child->prefix.substr(i);

        child->prefix = child_prefix;
        Node* split_child = new Node(parent_prefix);
        split_child->children[child_prefix[0]] = child;
        children[parent_prefix[0]] = split_child;

        return split_child->CreateChild(path_prefix.substr(i));
      }

  }
    child->is_leaf = true;
    return child->CreateChild(path_prefix.substr(i));
  }

  Node* CreateWildcardChild() {
    if (wildcard_child != nullptr) {
      return wildcard_child;
    }
    wildcard_child = new Node();
    return wildcard_child;
  }

  Node* NextNode(const std::string& path, size_t idx) const {
    if (idx >= path.length()) {
      return nullptr;
    }

    // wildcard node takes precedence
    if (children.size() > 1) {
      auto it = children.find('*');
      if (it != children.end()) {
        return it->second;
      }
    }

    auto it = children.find(path[idx]);
    if (it == children.end()) {
```

```
      return nullptr;
    }
    auto child = it->second;
    // match prefix
    size_t prefix_len = child->prefix.length();
    for (size_t i = 0; i < path.length(); ++i) {
      if (i >= prefix_len || child->prefix[i] == '*') {
        return
child;
      }

      // Handle optional trailing
      // path = /home/subdirectory
      // child = subdirectory/*
      if (idx >= path.length() &&
          child->prefix[i] == node::kPathSeparator) {
        continue;
      }

      if (path[idx++] != child->prefix[i]) {
        return nullptr;
      }
    }
    return child;
  }

  // A node can be a *end* node and have children
  // E.g: */slower*, */slown* are inserted:
  // /slow
  // ---> er
  // ---> n
  // If */slow* is inserted right after, it will create an
  // empty node
  // /slow
  // ---> '\000' ASCII (0) || \0
  // ---> er
  // ---> n
  bool IsEndNode() const {
    if (children.empty()) {
      return true;
    }
    return is_leaf;
  }
};

RadixTree();
~RadixTree();
void Insert(const std::string& s);
```

```
  bool Lookup(const std::string_view& s) const { return Lookup(s, false);
 }
  bool Lookup(const std::string_view& s, bool when_empty_return) const;

 private:
  Node* root_node_;
 };

private:
 void GrantAccess(PermissionScope scope, const std::string& param);
 // fs granted on startup
 RadixTree granted_in_fs_;
 RadixTree granted_out_fs_;

 bool deny_all_in_ = true;
 bool deny_all_out_ = true;

 bool allow_all_in_ = false;
 bool allow_all_out_ = false;
};

}  // namespace permission

}  // namespace node

#endif  // defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS
#endif  // SRC_PERMISSION_FS_PERMISSION_H_
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*/

#define PLATFORM "platform: BSD-x86_64"
#define DATE "built on: Wed Mar  5 20:59:54 2025 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
   'c','o','m','p','i','l','e','r',':',' ','.','.','/','c','o','n',
   'f','i','g','/','f','a','k','e','_','g','c','c','.','p','l',' ',
   '-','f','P','I','C',' ','-','p','t','h','r','e','a','d',' ','-',
   'W','a',',','-','-','n','o','e','x','e','c','s','t','a','c','k',
   ' ','-','W','a','l','l','
 ','-','O','3',' ','-','D','L','_','E',
   'N','D','I','A','N',' ','-','D','O','P','E','N','S','S','L','_',
   'P','I','C',' ','-','D','_','T','H','R','E','A','D','_','S','A',
   'F','E',' ','-','D','_','R','E','E','N','T','R','A','N','T',' ',
   '-','D','O','P','E','N','S','S','L','_','B','U','I','L','D','I',
   'N','G','_','O','P','E','N','S','S','L',' ','-','D','N','D','E',
   'B','U','G','\0'
};
```

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*/

#define PLATFORM "platform: BSD-x86_64"
#define DATE "built on: Wed Mar  5 21:00:10 2025 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
   'c','o','m','p','i','l','e','r',':',' ','c','c',' ','-','f','P',
   'I','C',' ','-','p','t','h','r','e','a','d',' ','-','W','a','l',
   'l',' ','-','O','3',' ','-','D','L','_','E','N','D','I','A','N',
   ' ','-','D','O','P','E','N','S','S','L','_','P','I','C',' ','-',
   'D','_','T','H','R','E','A','D','_','S','A','F','E','
 ','-','D',
   '_','R','E','E','N','T','R','A','N','T',' ','-','D','O','P','E',
   'N','S','S','L','_','B','U','I','L','D','I','N','G','_','O','P',
   'E','N','S','S','L',' ','-','D','N','D','E','B','U','G','\0'
};
```

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*/



#ifndef  OPENSSL_CONF_H
# define OPENSSL_CONF_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_CONF_H
# endif

# include <openssl/bio.h>
# include <openssl/lhash.h>
# include <openssl/safestack.h>
# include <openssl/e_os2.h>
# include <openssl/types.h>
# include <openssl/conferr.h>

#ifdef  __cplusplus
extern "C" {
#endif

typedef struct {
   char *section;
   char *name;
   char *value;
} CONF_VALUE;

SKM_DEFINE_STACK_OF_INTERNAL(CONF_VALUE, CONF_VALUE, CONF_VALUE)
#define sk_CONF_VALUE_num(sk) OPENSSL_sk_num(ossl_check_const_CONF_VALUE_sk_type(sk))
#define
 sk_CONF_VALUE_value(sk, idx) ((CONF_VALUE
*)OPENSSL_sk_value(ossl_check_const_CONF_VALUE_sk_type(sk), (idx)))
#define sk_CONF_VALUE_new(cmp) ((STACK_OF(CONF_VALUE)
```

```
*)OPENSSL_sk_new(ossl_check_CONF_VALUE_compfunc_type(cmp)))
#define sk_CONF_VALUE_new_null() ((STACK_OF(CONF_VALUE) *)OPENSSL_sk_new_null())
#define sk_CONF_VALUE_new_reserve(cmp, n) ((STACK_OF(CONF_VALUE)
*)OPENSSL_sk_new_reserve(ossl_check_CONF_VALUE_compfunc_type(cmp), (n)))
#define sk_CONF_VALUE_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_CONF_VALUE_sk_type(sk), (n))
#define sk_CONF_VALUE_free(sk) OPENSSL_sk_free(ossl_check_CONF_VALUE_sk_type(sk))
#define sk_CONF_VALUE_zero(sk) OPENSSL_sk_zero(ossl_check_CONF_VALUE_sk_type(sk))
#define sk_CONF_VALUE_delete(sk, i) ((CONF_VALUE
*)OPENSSL_sk_delete(ossl_check_CONF_VALUE_sk_type(sk), (i)))
#define sk_CONF_VALUE_delete_ptr(sk, ptr) ((CONF_VALUE
*)OPENSSL_sk_delete_ptr(ossl_check_CONF_VALUE_sk_type(sk), ossl_check_CONF_VALUE_type(ptr)))
#define
 sk_CONF_VALUE_push(sk, ptr) OPENSSL_sk_push(ossl_check_CONF_VALUE_sk_type(sk),
ossl_check_CONF_VALUE_type(ptr))
#define sk_CONF_VALUE_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_CONF_VALUE_sk_type(sk),
ossl_check_CONF_VALUE_type(ptr))
#define sk_CONF_VALUE_pop(sk) ((CONF_VALUE
*)OPENSSL_sk_pop(ossl_check_CONF_VALUE_sk_type(sk)))
#define sk_CONF_VALUE_shift(sk) ((CONF_VALUE
*)OPENSSL_sk_shift(ossl_check_CONF_VALUE_sk_type(sk)))
#define sk_CONF_VALUE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_CONF_VALUE_sk_type(sk),ossl_check_CONF_VALUE_freefunc_type(freef
unc))
#define sk_CONF_VALUE_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_CONF_VALUE_sk_type(sk),
ossl_check_CONF_VALUE_type(ptr), (idx))
#define sk_CONF_VALUE_set(sk, idx, ptr) ((CONF_VALUE
*)OPENSSL_sk_set(ossl_check_CONF_VALUE_sk_type(sk), (idx), ossl_check_CONF_VALUE_type(ptr)))
#define sk_CONF_VALUE_find(sk, ptr) OPENSSL_sk_find(ossl_check_CONF_VALUE_sk_type(sk),
ossl_check_CONF_VALUE_type(ptr))
#define sk_CONF_VALUE_find_ex(sk,
 ptr) OPENSSL_sk_find_ex(ossl_check_CONF_VALUE_sk_type(sk), ossl_check_CONF_VALUE_type(ptr))
#define sk_CONF_VALUE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_CONF_VALUE_sk_type(sk), ossl_check_CONF_VALUE_type(ptr), pnum)
#define sk_CONF_VALUE_sort(sk) OPENSSL_sk_sort(ossl_check_CONF_VALUE_sk_type(sk))
#define sk_CONF_VALUE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_CONF_VALUE_sk_type(sk))
#define sk_CONF_VALUE_dup(sk) ((STACK_OF(CONF_VALUE)
*)OPENSSL_sk_dup(ossl_check_const_CONF_VALUE_sk_type(sk)))
#define sk_CONF_VALUE_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(CONF_VALUE)
*)OPENSSL_sk_deep_copy(ossl_check_const_CONF_VALUE_sk_type(sk),
ossl_check_CONF_VALUE_copyfunc_type(copyfunc), ossl_check_CONF_VALUE_freefunc_type(freefunc)))
#define sk_CONF_VALUE_set_cmp_func(sk, cmp)
((sk_CONF_VALUE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_CONF_VALUE_sk_type(sk),
ossl_check_CONF_VALUE_compfunc_type(cmp)))
DEFINE_LHASH_OF_INTERNAL(CONF_VALUE);
#define
 lh_CONF_VALUE_new(hfn, cmp) ((LHASH_OF(CONF_VALUE)
*)OPENSSL_LH_new(ossl_check_CONF_VALUE_lh_hashfunc_type(hfn),
```

```
ossl_check_CONF_VALUE_lh_compfunc_type(cmp)))
#define lh_CONF_VALUE_free(lh) OPENSSL_LH_free(ossl_check_CONF_VALUE_lh_type(lh))
#define lh_CONF_VALUE_flush(lh) OPENSSL_LH_flush(ossl_check_CONF_VALUE_lh_type(lh))
#define lh_CONF_VALUE_insert(lh, ptr) ((CONF_VALUE
*)OPENSSL_LH_insert(ossl_check_CONF_VALUE_lh_type(lh),
ossl_check_CONF_VALUE_lh_plain_type(ptr)))
#define lh_CONF_VALUE_delete(lh, ptr) ((CONF_VALUE
*)OPENSSL_LH_delete(ossl_check_CONF_VALUE_lh_type(lh),
ossl_check_const_CONF_VALUE_lh_plain_type(ptr)))
#define lh_CONF_VALUE_retrieve(lh, ptr) ((CONF_VALUE
*)OPENSSL_LH_retrieve(ossl_check_CONF_VALUE_lh_type(lh),
ossl_check_const_CONF_VALUE_lh_plain_type(ptr)))
#define lh_CONF_VALUE_error(lh) OPENSSL_LH_error(ossl_check_CONF_VALUE_lh_type(lh))
#define lh_CONF_VALUE_num_items(lh) OPENSSL_LH_num_items(ossl_check_CONF_VALUE_lh_type(lh))
#define lh_CONF_VALUE_node_stats_bio(lh,
 out) OPENSSL_LH_node_stats_bio(ossl_check_const_CONF_VALUE_lh_type(lh), out)
#define lh_CONF_VALUE_node_usage_stats_bio(lh, out)
OPENSSL_LH_node_usage_stats_bio(ossl_check_const_CONF_VALUE_lh_type(lh), out)
#define lh_CONF_VALUE_stats_bio(lh, out)
OPENSSL_LH_stats_bio(ossl_check_const_CONF_VALUE_lh_type(lh), out)
#define lh_CONF_VALUE_get_down_load(lh)
OPENSSL_LH_get_down_load(ossl_check_CONF_VALUE_lh_type(lh))
#define lh_CONF_VALUE_set_down_load(lh, dl)
OPENSSL_LH_set_down_load(ossl_check_CONF_VALUE_lh_type(lh), dl)
#define lh_CONF_VALUE_doall(lh, dfn) OPENSSL_LH_doall(ossl_check_CONF_VALUE_lh_type(lh),
ossl_check_CONF_VALUE_lh_doallfunc_type(dfn))


struct conf_st;
struct conf_method_st;
typedef struct conf_method_st CONF_METHOD;

# ifndef OPENSSL_NO_DEPRECATED_3_0
#  include <openssl/conftypes.h>
# endif

/* Module definitions */
typedef struct conf_imodule_st CONF_IMODULE;
typedef struct conf_module_st CONF_MODULE;

STACK_OF(CONF_MODULE);
STACK_OF(CONF_IMODULE);

/* DSO module
 function typedefs */
typedef int conf_init_func (CONF_IMODULE *md, const CONF *cnf);
typedef void conf_finish_func (CONF_IMODULE *md);
```

```
# define CONF_MFLAGS_IGNORE_ERRORS       0x1
# define CONF_MFLAGS_IGNORE_RETURN_CODES 0x2
# define CONF_MFLAGS_SILENT              0x4
# define CONF_MFLAGS_NO_DSO              0x8
# define CONF_MFLAGS_IGNORE_MISSING_FILE 0x10
# define CONF_MFLAGS_DEFAULT_SECTION     0x20

int CONF_set_default_method(CONF_METHOD *meth);
void CONF_set_nconf(CONF *conf, LHASH_OF(CONF_VALUE) *hash);
LHASH_OF(CONF_VALUE) *CONF_load(LHASH_OF(CONF_VALUE) *conf, const char *file,
                                long *eline);
# ifndef OPENSSL_NO_STDIO
LHASH_OF(CONF_VALUE) *CONF_load_fp(LHASH_OF(CONF_VALUE) *conf, FILE *fp,
                                   long *eline);
# endif
LHASH_OF(CONF_VALUE) *CONF_load_bio(LHASH_OF(CONF_VALUE) *conf, BIO *bp,
                                    long *eline);
STACK_OF(CONF_VALUE) *CONF_get_section(LHASH_OF(CONF_VALUE) *conf,

                                       const char *section);
char *CONF_get_string(LHASH_OF(CONF_VALUE) *conf, const char *group,
                      const char *name);
long CONF_get_number(LHASH_OF(CONF_VALUE) *conf, const char *group,
                     const char *name);
void CONF_free(LHASH_OF(CONF_VALUE) *conf);
#ifndef OPENSSL_NO_STDIO
int CONF_dump_fp(LHASH_OF(CONF_VALUE) *conf, FILE *out);
#endif
int CONF_dump_bio(LHASH_OF(CONF_VALUE) *conf, BIO *out);
#ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 void OPENSSL_config(const char *config_name);
#endif

#ifndef OPENSSL_NO_DEPRECATED_1_1_0
# define OPENSSL_no_config() \
   OPENSSL_init_crypto(OPENSSL_INIT_NO_LOAD_CONFIG, NULL)
#endif

/*
* New conf code.  The semantics are different from the functions above. If
* that wasn't the case, the above functions would have been replaced
*/

CONF *NCONF_new_ex(OSSL_LIB_CTX *libctx, CONF_METHOD *meth);
OSSL_LIB_CTX *NCONF_get0_libctx(const CONF *conf);
CONF *NCONF_new(CONF_METHOD
 *meth);
CONF_METHOD *NCONF_default(void);
```

```
#ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 CONF_METHOD *NCONF_WIN32(void);
#endif
void NCONF_free(CONF *conf);
void NCONF_free_data(CONF *conf);

int NCONF_load(CONF *conf, const char *file, long *eline);
# ifndef OPENSSL_NO_STDIO
int NCONF_load_fp(CONF *conf, FILE *fp, long *eline);
# endif
int NCONF_load_bio(CONF *conf, BIO *bp, long *eline);
STACK_OF(OPENSSL_CSTRING) *NCONF_get_section_names(const CONF *conf);
STACK_OF(CONF_VALUE) *NCONF_get_section(const CONF *conf,
                                        const char *section);
char *NCONF_get_string(const CONF *conf, const char *group, const char *name);
int NCONF_get_number_e(const CONF *conf, const char *group, const char *name,
                       long *result);
#ifndef OPENSSL_NO_STDIO
int NCONF_dump_fp(const CONF *conf, FILE *out);
#endif
int NCONF_dump_bio(const CONF *conf, BIO *out);

#define NCONF_get_number(c,g,n,r) NCONF_get_number_e(c,g,n,r)

/* Module functions
 */

int CONF_modules_load(const CONF *cnf, const char *appname,
                      unsigned long flags);
int CONF_modules_load_file_ex(OSSL_LIB_CTX *libctx, const char *filename,
                              const char *appname, unsigned long flags);
int CONF_modules_load_file(const char *filename, const char *appname,
                           unsigned long flags);
void CONF_modules_unload(int all);
void CONF_modules_finish(void);
#ifndef OPENSSL_NO_DEPRECATED_1_1_0
# define CONF_modules_free() while(0) continue
#endif
int CONF_module_add(const char *name, conf_init_func *ifunc,
                    conf_finish_func *ffunc);

const char *CONF_imodule_get_name(const CONF_IMODULE *md);
const char *CONF_imodule_get_value(const CONF_IMODULE *md);
void *CONF_imodule_get_usr_data(const CONF_IMODULE *md);
void CONF_imodule_set_usr_data(CONF_IMODULE *md, void *usr_data);
CONF_MODULE *CONF_imodule_get_module(const CONF_IMODULE *md);
unsigned long CONF_imodule_get_flags(const CONF_IMODULE
```

```
 *md);
void CONF_imodule_set_flags(CONF_IMODULE *md, unsigned long flags);
void *CONF_module_get_usr_data(CONF_MODULE *pmod);
void CONF_module_set_usr_data(CONF_MODULE *pmod, void *usr_data);

char *CONF_get1_default_config_file(void);

int CONF_parse_list(const char *list, int sep, int nospc,
                    int (*list_cb) (const char *elem, int len, void *usr),
                    void *arg);

void OPENSSL_load_builtin_modules(void);


# ifdef  __cplusplus
}
# endif
#endif
```

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JSON parsing library (nlohmann/json)

File: vendor/json/upstream/single_include/nlohmann/json.hpp (only for ICU4C)

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File: install-sh (only for ICU4C)

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=== src/compat.h src/compat-inl.h ===

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```
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/safestack.h.in
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*/



#ifndef OPENSSL_SAFESTACK_H
```

```
# define OPENSSL_SAFESTACK_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_SAFESTACK_H
# endif

# include <openssl/stack.h>
# include <openssl/e_os2.h>

#ifdef __cplusplus
extern "C" {
#endif

# define STACK_OF(type) struct stack_st_##type

/* Helper macro for internal use */
# define SKM_DEFINE_STACK_OF_INTERNAL(t1, t2, t3) \
   STACK_OF(t1); \
   typedef int (*sk_##t1##_compfunc)(const t3 * const *a, const t3 *const *b); \
   typedef void (*sk_##t1##_freefunc)(t3 *a); \
   typedef t3
 * (*sk_##t1##_copyfunc)(const t3 *a); \
   static ossl_unused ossl_inline t2 *ossl_check_##t1##_type(t2 *ptr) \
   { \
       return ptr; \
   } \
   static ossl_unused ossl_inline const OPENSSL_STACK *ossl_check_const_##t1##_sk_type(const
STACK_OF(t1) *sk) \
   { \
       return (const OPENSSL_STACK *)sk; \
   } \
   static ossl_unused ossl_inline OPENSSL_STACK *ossl_check_##t1##_sk_type(STACK_OF(t1) *sk) \
   { \
       return (OPENSSL_STACK *)sk; \
   } \
   static ossl_unused ossl_inline OPENSSL_sk_compfunc ossl_check_##t1##_compfunc_type(sk_##t1##_compfunc
cmp) \
   { \
       return (OPENSSL_sk_compfunc)cmp; \
   } \
   static ossl_unused ossl_inline OPENSSL_sk_copyfunc ossl_check_##t1##_copyfunc_type(sk_##t1##_copyfunc
cpy) \
   { \
       return (OPENSSL_sk_copyfunc)cpy; \
   } \
   static ossl_unused ossl_inline OPENSSL_sk_freefunc ossl_check_##t1##_freefunc_type(sk_##t1##_freefunc fr) \
```

```
  { \
      return (OPENSSL_sk_freefunc)fr; \
  }

# define SKM_DEFINE_STACK_OF(t1,
 t2, t3) \
  STACK_OF(t1); \
  typedef int (*sk_##t1##_compfunc)(const t3 * const *a, const t3 *const *b); \
  typedef void (*sk_##t1##_freefunc)(t3 *a); \
  typedef t3 * (*sk_##t1##_copyfunc)(const t3 *a); \
  static ossl_unused ossl_inline int sk_##t1##_num(const STACK_OF(t1) *sk) \
  { \
      return OPENSSL_sk_num((const OPENSSL_STACK *)sk); \
  } \
  static ossl_unused ossl_inline t2 *sk_##t1##_value(const STACK_OF(t1) *sk, int idx) \
  { \
      return (t2 *)OPENSSL_sk_value((const OPENSSL_STACK *)sk, idx); \
  } \
  static ossl_unused ossl_inline STACK_OF(t1) *sk_##t1##_new(sk_##t1##_compfunc compare) \
  { \
      return (STACK_OF(t1) *)OPENSSL_sk_new((OPENSSL_sk_compfunc)compare); \
  } \
  static ossl_unused ossl_inline STACK_OF(t1) *sk_##t1##_new_null(void) \
  { \
      return (STACK_OF(t1) *)OPENSSL_sk_new_null(); \
  } \
  static ossl_unused ossl_inline STACK_OF(t1) *sk_##t1##_new_reserve(sk_##t1##_compfunc compare,
 int n) \
  { \
      return (STACK_OF(t1) *)OPENSSL_sk_new_reserve((OPENSSL_sk_compfunc)compare, n); \
  } \
  static ossl_unused ossl_inline int sk_##t1##_reserve(STACK_OF(t1) *sk, int n) \
  { \
      return OPENSSL_sk_reserve((OPENSSL_STACK *)sk, n); \
  } \
  static ossl_unused ossl_inline void sk_##t1##_free(STACK_OF(t1) *sk) \
  { \
      OPENSSL_sk_free((OPENSSL_STACK *)sk); \
  } \
  static ossl_unused ossl_inline void sk_##t1##_zero(STACK_OF(t1) *sk) \
  { \
      OPENSSL_sk_zero((OPENSSL_STACK *)sk); \
  } \
  static ossl_unused ossl_inline t2 *sk_##t1##_delete(STACK_OF(t1) *sk, int i) \
  { \
      return (t2 *)OPENSSL_sk_delete((OPENSSL_STACK *)sk, i); \
  } \
  static ossl_unused ossl_inline t2 *sk_##t1##_delete_ptr(STACK_OF(t1) *sk, t2 *ptr) \
```

```
  { \
      return (t2 *)OPENSSL_sk_delete_ptr((OPENSSL_STACK *)sk, \
                                  (const void *)ptr); \
  } \
  static ossl_unused ossl_inline int
sk_##t1##_push(STACK_OF(t1) *sk, t2 *ptr) \
  { \
      return OPENSSL_sk_push((OPENSSL_STACK *)sk, (const void *)ptr); \
  } \
  static ossl_unused ossl_inline int sk_##t1##_unshift(STACK_OF(t1) *sk, t2 *ptr) \
  { \
      return OPENSSL_sk_unshift((OPENSSL_STACK *)sk, (const void *)ptr); \
  } \
  static ossl_unused ossl_inline t2 *sk_##t1##_pop(STACK_OF(t1) *sk) \
  { \
      return (t2 *)OPENSSL_sk_pop((OPENSSL_STACK *)sk); \
  } \
  static ossl_unused ossl_inline t2 *sk_##t1##_shift(STACK_OF(t1) *sk) \
  { \
      return (t2 *)OPENSSL_sk_shift((OPENSSL_STACK *)sk); \
  } \
  static ossl_unused ossl_inline void sk_##t1##_pop_free(STACK_OF(t1) *sk, sk_##t1##_freefunc freefunc) \
  { \
      OPENSSL_sk_pop_free((OPENSSL_STACK *)sk, (OPENSSL_sk_freefunc)freefunc); \
  } \
  static ossl_unused ossl_inline int sk_##t1##_insert(STACK_OF(t1) *sk, t2 *ptr, int idx) \
  { \
      return OPENSSL_sk_insert((OPENSSL_STACK *)sk, (const void *)ptr, idx);
\
  } \
  static ossl_unused ossl_inline t2 *sk_##t1##_set(STACK_OF(t1) *sk, int idx, t2 *ptr) \
  { \
      return (t2 *)OPENSSL_sk_set((OPENSSL_STACK *)sk, idx, (const void *)ptr); \
  } \
  static ossl_unused ossl_inline int sk_##t1##_find(STACK_OF(t1) *sk, t2 *ptr) \
  { \
      return OPENSSL_sk_find((OPENSSL_STACK *)sk, (const void *)ptr); \
  } \
  static ossl_unused ossl_inline int sk_##t1##_find_ex(STACK_OF(t1) *sk, t2 *ptr) \
  { \
      return OPENSSL_sk_find_ex((OPENSSL_STACK *)sk, (const void *)ptr); \
  } \
  static ossl_unused ossl_inline int sk_##t1##_find_all(STACK_OF(t1) *sk, t2 *ptr, int *pnum) \
  { \
      return OPENSSL_sk_find_all((OPENSSL_STACK *)sk, (const void *)ptr, pnum); \
  } \
  static ossl_unused ossl_inline void sk_##t1##_sort(STACK_OF(t1) *sk) \
  { \
```

```
    OPENSSL_sk_sort((OPENSSL_STACK *)sk); \
  } \
  static ossl_unused ossl_inline int sk_##t1##_is_sorted(const STACK_OF(t1) *sk) \
  { \
    return
 OPENSSL_sk_is_sorted((const OPENSSL_STACK *)sk); \
  } \
  static ossl_unused ossl_inline STACK_OF(t1) * sk_##t1##_dup(const STACK_OF(t1) *sk) \
  { \
    return (STACK_OF(t1) *)OPENSSL_sk_dup((const OPENSSL_STACK *)sk); \
  } \
  static ossl_unused ossl_inline STACK_OF(t1) *sk_##t1##_deep_copy(const STACK_OF(t1) *sk, \
                                    sk_##t1##_copyfunc copyfunc, \
                                    sk_##t1##_freefunc freefunc) \
  { \
    return (STACK_OF(t1) *)OPENSSL_sk_deep_copy((const OPENSSL_STACK *)sk, \
                              (OPENSSL_sk_copyfunc)copyfunc, \
                              (OPENSSL_sk_freefunc)freefunc); \
  } \
  static ossl_unused ossl_inline sk_##t1##_compfunc sk_##t1##_set_cmp_func(STACK_OF(t1) *sk,
sk_##t1##_compfunc compare) \
  { \
    return (sk_##t1##_compfunc)OPENSSL_sk_set_cmp_func((OPENSSL_STACK *)sk,
(OPENSSL_sk_compfunc)compare); \
   }

# define DEFINE_STACK_OF(t) SKM_DEFINE_STACK_OF(t, t, t)
# define DEFINE_STACK_OF_CONST(t) SKM_DEFINE_STACK_OF(t, const t, t)
# define DEFINE_SPECIAL_STACK_OF(t1, t2) SKM_DEFINE_STACK_OF(t1, t2, t2)
# define DEFINE_SPECIAL_STACK_OF_CONST(t1, t2) \
        SKM_DEFINE_STACK_OF(t1, const t2, t2)

/*-
* Strings are special: normally an lhash entry will point to a single
* (somewhat) mutable object. In the case of strings:
*
* a) Instead of a single char, there is an array of chars, NUL-terminated.
* b) The string may have be immutable.
*
* So, they need their own declarations. Especially important for
* type-checking tools, such as Deputy.
*
* In practice, however, it appears to be hard to have a const
* string. For now, I'm settling for dealing with the fact it is a
* string at all.
*/
typedef char *OPENSSL_STRING;
typedef const char *OPENSSL_CSTRING;
```

```
/*-
* Confusingly, LHASH_OF(STRING) deals with char ** throughout, but
* STACK_OF(STRING) is really more like STACK_OF(char),
 only, as mentioned
* above, instead of a single char each entry is a NUL-terminated array of
* chars. So, we have to implement STRING specially for STACK_OF. This is
* dealt with in the autogenerated macros below.
*/
SKM_DEFINE_STACK_OF_INTERNAL(OPENSSL_STRING, char, char)
#define sk_OPENSSL_STRING_num(sk)
OPENSSL_sk_num(ossl_check_const_OPENSSL_STRING_sk_type(sk))
#define sk_OPENSSL_STRING_value(sk, idx) ((char
*)OPENSSL_sk_value(ossl_check_const_OPENSSL_STRING_sk_type(sk), (idx)))
#define sk_OPENSSL_STRING_new(cmp) ((STACK_OF(OPENSSL_STRING)
*)OPENSSL_sk_new(ossl_check_OPENSSL_STRING_compfunc_type(cmp)))
#define sk_OPENSSL_STRING_new_null() ((STACK_OF(OPENSSL_STRING) *)OPENSSL_sk_new_null())
#define sk_OPENSSL_STRING_new_reserve(cmp, n) ((STACK_OF(OPENSSL_STRING)
*)OPENSSL_sk_new_reserve(ossl_check_OPENSSL_STRING_compfunc_type(cmp), (n)))
#define sk_OPENSSL_STRING_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OPENSSL_STRING_sk_type(sk), (n))
#define sk_OPENSSL_STRING_free(sk)
 OPENSSL_sk_free(ossl_check_OPENSSL_STRING_sk_type(sk))
#define sk_OPENSSL_STRING_zero(sk) OPENSSL_sk_zero(ossl_check_OPENSSL_STRING_sk_type(sk))
#define sk_OPENSSL_STRING_delete(sk, i) ((char
*)OPENSSL_sk_delete(ossl_check_OPENSSL_STRING_sk_type(sk), (i)))
#define sk_OPENSSL_STRING_delete_ptr(sk, ptr) ((char
*)OPENSSL_sk_delete_ptr(ossl_check_OPENSSL_STRING_sk_type(sk),
ossl_check_OPENSSL_STRING_type(ptr)))
#define sk_OPENSSL_STRING_push(sk, ptr) OPENSSL_sk_push(ossl_check_OPENSSL_STRING_sk_type(sk),
ossl_check_OPENSSL_STRING_type(ptr))
#define sk_OPENSSL_STRING_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OPENSSL_STRING_sk_type(sk), ossl_check_OPENSSL_STRING_type(ptr))
#define sk_OPENSSL_STRING_pop(sk) ((char
*)OPENSSL_sk_pop(ossl_check_OPENSSL_STRING_sk_type(sk)))
#define sk_OPENSSL_STRING_shift(sk) ((char
*)OPENSSL_sk_shift(ossl_check_OPENSSL_STRING_sk_type(sk)))
#define sk_OPENSSL_STRING_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OPENSSL_STRING_sk_type(sk),ossl_check_OPENSSL_STRING_freefunc_
type(freefunc))
#define
 sk_OPENSSL_STRING_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_OPENSSL_STRING_sk_type(sk),
ossl_check_OPENSSL_STRING_type(ptr), (idx))
#define sk_OPENSSL_STRING_set(sk, idx, ptr) ((char
*)OPENSSL_sk_set(ossl_check_OPENSSL_STRING_sk_type(sk), (idx),
ossl_check_OPENSSL_STRING_type(ptr)))
#define sk_OPENSSL_STRING_find(sk, ptr) OPENSSL_sk_find(ossl_check_OPENSSL_STRING_sk_type(sk),
ossl_check_OPENSSL_STRING_type(ptr))
```

```
#define sk_OPENSSL_STRING_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OPENSSL_STRING_sk_type(sk), ossl_check_OPENSSL_STRING_type(ptr))
#define sk_OPENSSL_STRING_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OPENSSL_STRING_sk_type(sk), ossl_check_OPENSSL_STRING_type(ptr),
pnum)
#define sk_OPENSSL_STRING_sort(sk) OPENSSL_sk_sort(ossl_check_OPENSSL_STRING_sk_type(sk))
#define sk_OPENSSL_STRING_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OPENSSL_STRING_sk_type(sk))
#define sk_OPENSSL_STRING_dup(sk)
 ((STACK_OF(OPENSSL_STRING) *)OPENSSL_sk_dup(ossl_check_const_OPENSSL_STRING_sk_type(sk)))
#define sk_OPENSSL_STRING_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OPENSSL_STRING)
*)OPENSSL_sk_deep_copy(ossl_check_const_OPENSSL_STRING_sk_type(sk),
ossl_check_OPENSSL_STRING_copyfunc_type(copyfunc),
ossl_check_OPENSSL_STRING_freefunc_type(freefunc)))
#define sk_OPENSSL_STRING_set_cmp_func(sk, cmp)
((sk_OPENSSL_STRING_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OPENSSL_STRING_sk_type(sk),
ossl_check_OPENSSL_STRING_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(OPENSSL_CSTRING, const char, char)
#define sk_OPENSSL_CSTRING_num(sk)
OPENSSL_sk_num(ossl_check_const_OPENSSL_CSTRING_sk_type(sk))
#define sk_OPENSSL_CSTRING_value(sk, idx) ((const char
*)OPENSSL_sk_value(ossl_check_const_OPENSSL_CSTRING_sk_type(sk), (idx)))
#define sk_OPENSSL_CSTRING_new(cmp) ((STACK_OF(OPENSSL_CSTRING)
*)OPENSSL_sk_new(ossl_check_OPENSSL_CSTRING_compfunc_type(cmp)))
#define sk_OPENSSL_CSTRING_new_null() ((STACK_OF(OPENSSL_CSTRING)
 *)OPENSSL_sk_new_null())
#define sk_OPENSSL_CSTRING_new_reserve(cmp, n) ((STACK_OF(OPENSSL_CSTRING)
*)OPENSSL_sk_new_reserve(ossl_check_OPENSSL_CSTRING_compfunc_type(cmp), (n)))
#define sk_OPENSSL_CSTRING_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OPENSSL_CSTRING_sk_type(sk), (n))
#define sk_OPENSSL_CSTRING_free(sk) OPENSSL_sk_free(ossl_check_OPENSSL_CSTRING_sk_type(sk))
#define sk_OPENSSL_CSTRING_zero(sk) OPENSSL_sk_zero(ossl_check_OPENSSL_CSTRING_sk_type(sk))
#define sk_OPENSSL_CSTRING_delete(sk, i) ((const char
*)OPENSSL_sk_delete(ossl_check_OPENSSL_CSTRING_sk_type(sk), (i)))
#define sk_OPENSSL_CSTRING_delete_ptr(sk, ptr) ((const char
*)OPENSSL_sk_delete_ptr(ossl_check_OPENSSL_CSTRING_sk_type(sk),
ossl_check_OPENSSL_CSTRING_type(ptr)))
#define sk_OPENSSL_CSTRING_push(sk, ptr)
OPENSSL_sk_push(ossl_check_OPENSSL_CSTRING_sk_type(sk), ossl_check_OPENSSL_CSTRING_type(ptr))
#define sk_OPENSSL_CSTRING_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OPENSSL_CSTRING_sk_type(sk),
 ossl_check_OPENSSL_CSTRING_type(ptr))
#define sk_OPENSSL_CSTRING_pop(sk) ((const char
*)OPENSSL_sk_pop(ossl_check_OPENSSL_CSTRING_sk_type(sk)))
#define sk_OPENSSL_CSTRING_shift(sk) ((const char
*)OPENSSL_sk_shift(ossl_check_OPENSSL_CSTRING_sk_type(sk)))
#define sk_OPENSSL_CSTRING_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OPENSSL_CSTRING_sk_type(sk),ossl_check_OPENSSL_CSTRING_freefu
```

```
nc_type(freefunc))
#define sk_OPENSSL_CSTRING_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OPENSSL_CSTRING_sk_type(sk), ossl_check_OPENSSL_CSTRING_type(ptr),
(idx))
#define sk_OPENSSL_CSTRING_set(sk, idx, ptr) ((const char
*)OPENSSL_sk_set(ossl_check_OPENSSL_CSTRING_sk_type(sk), (idx),
ossl_check_OPENSSL_CSTRING_type(ptr)))
#define sk_OPENSSL_CSTRING_find(sk, ptr)
OPENSSL_sk_find(ossl_check_OPENSSL_CSTRING_sk_type(sk), ossl_check_OPENSSL_CSTRING_type(ptr))
#define sk_OPENSSL_CSTRING_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OPENSSL_CSTRING_sk_type(sk),
ossl_check_OPENSSL_CSTRING_type(ptr))
#define
 sk_OPENSSL_CSTRING_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OPENSSL_CSTRING_sk_type(sk),
ossl_check_OPENSSL_CSTRING_type(ptr), pnum)
#define sk_OPENSSL_CSTRING_sort(sk) OPENSSL_sk_sort(ossl_check_OPENSSL_CSTRING_sk_type(sk))
#define sk_OPENSSL_CSTRING_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OPENSSL_CSTRING_sk_type(sk))
#define sk_OPENSSL_CSTRING_dup(sk) ((STACK_OF(OPENSSL_CSTRING)
*)OPENSSL_sk_dup(ossl_check_const_OPENSSL_CSTRING_sk_type(sk)))
#define sk_OPENSSL_CSTRING_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OPENSSL_CSTRING)
*)OPENSSL_sk_deep_copy(ossl_check_const_OPENSSL_CSTRING_sk_type(sk),
ossl_check_OPENSSL_CSTRING_copyfunc_type(copyfunc),
ossl_check_OPENSSL_CSTRING_freefunc_type(freefunc)))
#define sk_OPENSSL_CSTRING_set_cmp_func(sk, cmp)
((sk_OPENSSL_CSTRING_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OPENSSL_CSTRING_sk_type(s
k), ossl_check_OPENSSL_CSTRING_compfunc_type(cmp)))


#if !defined(OPENSSL_NO_DEPRECATED_3_0)
/*
* This
 is not used by OpenSSL.  A block of bytes,  NOT nul-terminated.
* These should also be distinguished from "normal" stacks.
*/
typedef void *OPENSSL_BLOCK;
SKM_DEFINE_STACK_OF_INTERNAL(OPENSSL_BLOCK, void, void)
#define sk_OPENSSL_BLOCK_num(sk) OPENSSL_sk_num(ossl_check_const_OPENSSL_BLOCK_sk_type(sk))
#define sk_OPENSSL_BLOCK_value(sk, idx) ((void
*)OPENSSL_sk_value(ossl_check_const_OPENSSL_BLOCK_sk_type(sk), (idx)))
#define sk_OPENSSL_BLOCK_new(cmp) ((STACK_OF(OPENSSL_BLOCK)
*)OPENSSL_sk_new(ossl_check_OPENSSL_BLOCK_compfunc_type(cmp)))
#define sk_OPENSSL_BLOCK_new_null() ((STACK_OF(OPENSSL_BLOCK) *)OPENSSL_sk_new_null())
#define sk_OPENSSL_BLOCK_new_reserve(cmp, n) ((STACK_OF(OPENSSL_BLOCK)
*)OPENSSL_sk_new_reserve(ossl_check_OPENSSL_BLOCK_compfunc_type(cmp), (n)))
#define sk_OPENSSL_BLOCK_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OPENSSL_BLOCK_sk_type(sk), (n))
```

```
#define sk_OPENSSL_BLOCK_free(sk) OPENSSL_sk_free(ossl_check_OPENSSL_BLOCK_sk_type(sk))
#define sk_OPENSSL_BLOCK_zero(sk)
 OPENSSL_sk_zero(ossl_check_OPENSSL_BLOCK_sk_type(sk))
#define sk_OPENSSL_BLOCK_delete(sk, i) ((void
*)OPENSSL_sk_delete(ossl_check_OPENSSL_BLOCK_sk_type(sk), (i)))
#define sk_OPENSSL_BLOCK_delete_ptr(sk, ptr) ((void
*)OPENSSL_sk_delete_ptr(ossl_check_OPENSSL_BLOCK_sk_type(sk),
ossl_check_OPENSSL_BLOCK_type(ptr)))
#define sk_OPENSSL_BLOCK_push(sk, ptr) OPENSSL_sk_push(ossl_check_OPENSSL_BLOCK_sk_type(sk),
ossl_check_OPENSSL_BLOCK_type(ptr))
#define sk_OPENSSL_BLOCK_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OPENSSL_BLOCK_sk_type(sk), ossl_check_OPENSSL_BLOCK_type(ptr))
#define sk_OPENSSL_BLOCK_pop(sk) ((void
*)OPENSSL_sk_pop(ossl_check_OPENSSL_BLOCK_sk_type(sk)))
#define sk_OPENSSL_BLOCK_shift(sk) ((void
*)OPENSSL_sk_shift(ossl_check_OPENSSL_BLOCK_sk_type(sk)))
#define sk_OPENSSL_BLOCK_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OPENSSL_BLOCK_sk_type(sk),ossl_check_OPENSSL_BLOCK_freefunc_t
ype(freefunc))
#define sk_OPENSSL_BLOCK_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OPENSSL_BLOCK_sk_type(sk),
 ossl_check_OPENSSL_BLOCK_type(ptr), (idx))
#define sk_OPENSSL_BLOCK_set(sk, idx, ptr) ((void
*)OPENSSL_sk_set(ossl_check_OPENSSL_BLOCK_sk_type(sk), (idx),
ossl_check_OPENSSL_BLOCK_type(ptr)))
#define sk_OPENSSL_BLOCK_find(sk, ptr) OPENSSL_sk_find(ossl_check_OPENSSL_BLOCK_sk_type(sk),
ossl_check_OPENSSL_BLOCK_type(ptr))
#define sk_OPENSSL_BLOCK_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OPENSSL_BLOCK_sk_type(sk), ossl_check_OPENSSL_BLOCK_type(ptr))
#define sk_OPENSSL_BLOCK_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OPENSSL_BLOCK_sk_type(sk), ossl_check_OPENSSL_BLOCK_type(ptr),
pnum)
#define sk_OPENSSL_BLOCK_sort(sk) OPENSSL_sk_sort(ossl_check_OPENSSL_BLOCK_sk_type(sk))
#define sk_OPENSSL_BLOCK_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OPENSSL_BLOCK_sk_type(sk))
#define sk_OPENSSL_BLOCK_dup(sk) ((STACK_OF(OPENSSL_BLOCK)
*)OPENSSL_sk_dup(ossl_check_const_OPENSSL_BLOCK_sk_type(sk)))
#define sk_OPENSSL_BLOCK_deep_copy(sk, copyfunc,
 freefunc) ((STACK_OF(OPENSSL_BLOCK)
*)OPENSSL_sk_deep_copy(ossl_check_const_OPENSSL_BLOCK_sk_type(sk),
ossl_check_OPENSSL_BLOCK_copyfunc_type(copyfunc),
ossl_check_OPENSSL_BLOCK_freefunc_type(freefunc)))
#define sk_OPENSSL_BLOCK_set_cmp_func(sk, cmp)
((sk_OPENSSL_BLOCK_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OPENSSL_BLOCK_sk_type(sk),
ossl_check_OPENSSL_BLOCK_compfunc_type(cmp)))

#endif
```

# ifdef __cplusplus
}
# endif
#endif
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```
{
 'variables': {
   'openssl_defines_BSD-x86': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'AES_ASM',
     'CMLL_ASM',
     'DES_ASM',
     'ECP_NISTZ256_ASM',
     'GHASH_ASM',
     'MD5_ASM',
     'OPENSSL_BN_ASM_GF2m',
     'OPENSSL_BN_ASM_MONT',
     'OPENSSL_BN_ASM_PART_WORDS',
     'OPENSSL_CPUID_OBJ',
     'OPENSSL_IA32_SSE2',
     'PADLOCK_ASM',
     'POLY1305_ASM',
     'RC4_ASM',
     'RMD160_ASM',
     'SHA1_ASM',
     'SHA256_ASM',
     'SHA512_ASM',
     'VPAES_ASM',
     'WHIRLPOOL_ASM',
     'OPENSSL_PIC',
   ],
   'openssl_cflags_BSD-x86': [
     '-Wa,--noexecstack',
     '-Wall -O3 -fomit-frame-pointer',
     '-pthread',
     '-Wall -O3 -fomit-frame-pointer',
```

```
],
'openssl_ex_libs_BSD-x86': [
  '-pthread',
],
'openssl_cli_srcs_BSD-x86': [
  'openssl/apps/lib/cmp_mock_srv.c',
  'openssl/apps/asn1parse.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cmp.c',
   'openssl/apps/cms.c',
  'openssl/apps/crl.c',
  'openssl/apps/crl2pkcs7.c',
  'openssl/apps/dgst.c',
  'openssl/apps/dhparam.c',
  'openssl/apps/dsa.c',
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  'openssl/apps/ec.c',
  'openssl/apps/ecparam.c',
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  'openssl/apps/engine.c',
  'openssl/apps/errstr.c',
  'openssl/apps/fipsinstall.c',
  'openssl/apps/gendsa.c',
  'openssl/apps/genpkey.c',
  'openssl/apps/genrsa.c',
  'openssl/apps/info.c',
  'openssl/apps/kdf.c',
  'openssl/apps/list.c',
  'openssl/apps/mac.c',
  'openssl/apps/nseq.c',
  'openssl/apps/ocsp.c',
  'openssl/apps/openssl.c',
  'openssl/apps/passwd.c',
  'openssl/apps/pkcs12.c',
  'openssl/apps/pkcs7.c',
  'openssl/apps/pkcs8.c',
  'openssl/apps/pkey.c',
  'openssl/apps/pkeyparam.c',
  'openssl/apps/pkeyutl.c',
  'openssl/apps/prime.c',
  './config/archs/BSD-x86/asm/apps/progs.c',

 'openssl/apps/rand.c',
  'openssl/apps/rehash.c',
  'openssl/apps/req.c',
  'openssl/apps/rsa.c',
  'openssl/apps/rsautl.c',
```

```
    'openssl/apps/s_client.c',
    'openssl/apps/s_server.c',
    'openssl/apps/s_time.c',
    'openssl/apps/sess_id.c',
    'openssl/apps/smime.c',
    'openssl/apps/speed.c',
    'openssl/apps/spkac.c',
    'openssl/apps/srp.c',
    'openssl/apps/storeutl.c',
    'openssl/apps/ts.c',
    'openssl/apps/verify.c',
    'openssl/apps/version.c',
    'openssl/apps/x509.c',
    'openssl/apps/lib/app_libctx.c',
    'openssl/apps/lib/app_params.c',
    'openssl/apps/lib/app_provider.c',
    'openssl/apps/lib/app_rand.c',
    'openssl/apps/lib/app_x509.c',
    'openssl/apps/lib/apps.c',
    'openssl/apps/lib/apps_ui.c',
    'openssl/apps/lib/columns.c',
    'openssl/apps/lib/engine.c',
    'openssl/apps/lib/engine_loader.c',
    'openssl/apps/lib/fmt.c',
    'openssl/apps/lib/http_server.c',
    'openssl/apps/lib/names.c',
     'openssl/apps/lib/opt.c',
    'openssl/apps/lib/s_cb.c',
    'openssl/apps/lib/s_socket.c',
    'openssl/apps/lib/tlssrp_depr.c',
  ],
 },
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'include_dirs': [
  './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86)'],
}
/*-
* WARNING: do not edit!
* Generated by Makefile from include/openssl/crmf.h.in
*
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* Copyright Siemens AG 2015-2019
*
```

```
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*
* CRMF (RFC 4211) implementation by M. Peylo, M. Viljanen, and D. von Oheimb.
*/



#ifndef OPENSSL_CRMF_H
# define OPENSSL_CRMF_H

# include <openssl/opensslconf.h>

# ifndef OPENSSL_NO_CRMF
#  include <openssl/opensslv.h>
#  include <openssl/safestack.h>
#  include <openssl/crmferr.h>
#  include <openssl/x509v3.h> /* for GENERAL_NAME etc. */

/* explicit #includes not strictly needed since implied by the above: */
#  include <openssl/types.h>
#  include <openssl/x509.h>

#  ifdef __cplusplus
extern "C" {
#  endif

#
  define OSSL_CRMF_POPOPRIVKEY_THISMESSAGE         0
#  define OSSL_CRMF_POPOPRIVKEY_SUBSEQUENTMESSAGE    1
#  define OSSL_CRMF_POPOPRIVKEY_DHMAC              2
#  define OSSL_CRMF_POPOPRIVKEY_AGREEMAC            3
#  define OSSL_CRMF_POPOPRIVKEY_ENCRYPTEDKEY        4

#  define OSSL_CRMF_SUBSEQUENTMESSAGE_ENCRCERT       0
#  define OSSL_CRMF_SUBSEQUENTMESSAGE_CHALLENGERESP  1

typedef struct ossl_crmf_encryptedvalue_st OSSL_CRMF_ENCRYPTEDVALUE;
DECLARE_ASN1_FUNCTIONS(OSSL_CRMF_ENCRYPTEDVALUE)
typedef struct ossl_crmf_msg_st OSSL_CRMF_MSG;
DECLARE_ASN1_FUNCTIONS(OSSL_CRMF_MSG)
DECLARE_ASN1_DUP_FUNCTION(OSSL_CRMF_MSG)
SKM_DEFINE_STACK_OF_INTERNAL(OSSL_CRMF_MSG, OSSL_CRMF_MSG, OSSL_CRMF_MSG)
#define sk_OSSL_CRMF_MSG_num(sk)
OPENSSL_sk_num(ossl_check_const_OSSL_CRMF_MSG_sk_type(sk))
#define sk_OSSL_CRMF_MSG_value(sk, idx) ((OSSL_CRMF_MSG
```

```
*)OPENSSL_sk_value(ossl_check_const_OSSL_CRMF_MSG_sk_type(sk), (idx)))
#define sk_OSSL_CRMF_MSG_new(cmp) ((STACK_OF(OSSL_CRMF_MSG)
*)OPENSSL_sk_new(ossl_check_OSSL_CRMF_MSG_compfunc_type(cmp)))
#define
 sk_OSSL_CRMF_MSG_new_null() ((STACK_OF(OSSL_CRMF_MSG) *)OPENSSL_sk_new_null())
#define sk_OSSL_CRMF_MSG_new_reserve(cmp, n) ((STACK_OF(OSSL_CRMF_MSG)
*)OPENSSL_sk_new_reserve(ossl_check_OSSL_CRMF_MSG_compfunc_type(cmp), (n)))
#define sk_OSSL_CRMF_MSG_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OSSL_CRMF_MSG_sk_type(sk), (n))
#define sk_OSSL_CRMF_MSG_free(sk) OPENSSL_sk_free(ossl_check_OSSL_CRMF_MSG_sk_type(sk))
#define sk_OSSL_CRMF_MSG_zero(sk) OPENSSL_sk_zero(ossl_check_OSSL_CRMF_MSG_sk_type(sk))
#define sk_OSSL_CRMF_MSG_delete(sk, i) ((OSSL_CRMF_MSG
*)OPENSSL_sk_delete(ossl_check_OSSL_CRMF_MSG_sk_type(sk), (i)))
#define sk_OSSL_CRMF_MSG_delete_ptr(sk, ptr) ((OSSL_CRMF_MSG
*)OPENSSL_sk_delete_ptr(ossl_check_OSSL_CRMF_MSG_sk_type(sk),
ossl_check_OSSL_CRMF_MSG_type(ptr)))
#define sk_OSSL_CRMF_MSG_push(sk, ptr) OPENSSL_sk_push(ossl_check_OSSL_CRMF_MSG_sk_type(sk),
ossl_check_OSSL_CRMF_MSG_type(ptr))
#define sk_OSSL_CRMF_MSG_unshift(sk,
 ptr) OPENSSL_sk_unshift(ossl_check_OSSL_CRMF_MSG_sk_type(sk),
ossl_check_OSSL_CRMF_MSG_type(ptr))
#define sk_OSSL_CRMF_MSG_pop(sk) ((OSSL_CRMF_MSG
*)OPENSSL_sk_pop(ossl_check_OSSL_CRMF_MSG_sk_type(sk)))
#define sk_OSSL_CRMF_MSG_shift(sk) ((OSSL_CRMF_MSG
*)OPENSSL_sk_shift(ossl_check_OSSL_CRMF_MSG_sk_type(sk)))
#define sk_OSSL_CRMF_MSG_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OSSL_CRMF_MSG_sk_type(sk),ossl_check_OSSL_CRMF_MSG_freefunc_t
ype(freefunc))
#define sk_OSSL_CRMF_MSG_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OSSL_CRMF_MSG_sk_type(sk), ossl_check_OSSL_CRMF_MSG_type(ptr),
(idx))
#define sk_OSSL_CRMF_MSG_set(sk, idx, ptr) ((OSSL_CRMF_MSG
*)OPENSSL_sk_set(ossl_check_OSSL_CRMF_MSG_sk_type(sk), (idx),
ossl_check_OSSL_CRMF_MSG_type(ptr)))
#define sk_OSSL_CRMF_MSG_find(sk, ptr) OPENSSL_sk_find(ossl_check_OSSL_CRMF_MSG_sk_type(sk),
ossl_check_OSSL_CRMF_MSG_type(ptr))
#define sk_OSSL_CRMF_MSG_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OSSL_CRMF_MSG_sk_type(sk),
 ossl_check_OSSL_CRMF_MSG_type(ptr))
#define sk_OSSL_CRMF_MSG_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_OSSL_CRMF_MSG_sk_type(sk), ossl_check_OSSL_CRMF_MSG_type(ptr),
pnum)
#define sk_OSSL_CRMF_MSG_sort(sk) OPENSSL_sk_sort(ossl_check_OSSL_CRMF_MSG_sk_type(sk))
#define sk_OSSL_CRMF_MSG_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OSSL_CRMF_MSG_sk_type(sk))
#define sk_OSSL_CRMF_MSG_dup(sk) ((STACK_OF(OSSL_CRMF_MSG)
*)OPENSSL_sk_dup(ossl_check_const_OSSL_CRMF_MSG_sk_type(sk)))
#define sk_OSSL_CRMF_MSG_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OSSL_CRMF_MSG)
```

```
*)OPENSSL_sk_deep_copy(ossl_check_const_OSSL_CRMF_MSG_sk_type(sk),
ossl_check_OSSL_CRMF_MSG_copyfunc_type(copyfunc),
ossl_check_OSSL_CRMF_MSG_freefunc_type(freefunc)))
#define sk_OSSL_CRMF_MSG_set_cmp_func(sk, cmp)
((sk_OSSL_CRMF_MSG_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OSSL_CRMF_MSG_sk_type(sk),
ossl_check_OSSL_CRMF_MSG_compfunc_type(cmp)))

typedef struct ossl_crmf_attributetypeandvalue_st OSSL_CRMF_ATTRIBUTETYPEANDVALUE;
typedef
 struct ossl_crmf_pbmparameter_st OSSL_CRMF_PBMPARAMETER;
DECLARE_ASN1_FUNCTIONS(OSSL_CRMF_PBMPARAMETER)
typedef struct ossl_crmf_poposigningkey_st OSSL_CRMF_POPOSIGNINGKEY;
typedef struct ossl_crmf_certrequest_st OSSL_CRMF_CERTREQUEST;
typedef struct ossl_crmf_certid_st OSSL_CRMF_CERTID;
DECLARE_ASN1_FUNCTIONS(OSSL_CRMF_CERTID)
DECLARE_ASN1_DUP_FUNCTION(OSSL_CRMF_CERTID)
SKM_DEFINE_STACK_OF_INTERNAL(OSSL_CRMF_CERTID, OSSL_CRMF_CERTID,
OSSL_CRMF_CERTID)
#define sk_OSSL_CRMF_CERTID_num(sk)
OPENSSL_sk_num(ossl_check_const_OSSL_CRMF_CERTID_sk_type(sk))
#define sk_OSSL_CRMF_CERTID_value(sk, idx) ((OSSL_CRMF_CERTID
*)OPENSSL_sk_value(ossl_check_const_OSSL_CRMF_CERTID_sk_type(sk), (idx)))
#define sk_OSSL_CRMF_CERTID_new(cmp) ((STACK_OF(OSSL_CRMF_CERTID)
*)OPENSSL_sk_new(ossl_check_OSSL_CRMF_CERTID_compfunc_type(cmp)))
#define sk_OSSL_CRMF_CERTID_new_null() ((STACK_OF(OSSL_CRMF_CERTID)
*)OPENSSL_sk_new_null())
#define sk_OSSL_CRMF_CERTID_new_reserve(cmp, n) ((STACK_OF(OSSL_CRMF_CERTID)
 *)OPENSSL_sk_new_reserve(ossl_check_OSSL_CRMF_CERTID_compfunc_type(cmp), (n)))
#define sk_OSSL_CRMF_CERTID_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_OSSL_CRMF_CERTID_sk_type(sk), (n))
#define sk_OSSL_CRMF_CERTID_free(sk) OPENSSL_sk_free(ossl_check_OSSL_CRMF_CERTID_sk_type(sk))
#define sk_OSSL_CRMF_CERTID_zero(sk)
OPENSSL_sk_zero(ossl_check_OSSL_CRMF_CERTID_sk_type(sk))
#define sk_OSSL_CRMF_CERTID_delete(sk, i) ((OSSL_CRMF_CERTID
*)OPENSSL_sk_delete(ossl_check_OSSL_CRMF_CERTID_sk_type(sk), (i)))
#define sk_OSSL_CRMF_CERTID_delete_ptr(sk, ptr) ((OSSL_CRMF_CERTID
*)OPENSSL_sk_delete_ptr(ossl_check_OSSL_CRMF_CERTID_sk_type(sk),
ossl_check_OSSL_CRMF_CERTID_type(ptr)))
#define sk_OSSL_CRMF_CERTID_push(sk, ptr)
OPENSSL_sk_push(ossl_check_OSSL_CRMF_CERTID_sk_type(sk),
ossl_check_OSSL_CRMF_CERTID_type(ptr))
#define sk_OSSL_CRMF_CERTID_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_OSSL_CRMF_CERTID_sk_type(sk),
ossl_check_OSSL_CRMF_CERTID_type(ptr))
#define sk_OSSL_CRMF_CERTID_pop(sk)
 ((OSSL_CRMF_CERTID *)OPENSSL_sk_pop(ossl_check_OSSL_CRMF_CERTID_sk_type(sk)))
#define sk_OSSL_CRMF_CERTID_shift(sk) ((OSSL_CRMF_CERTID
*)OPENSSL_sk_shift(ossl_check_OSSL_CRMF_CERTID_sk_type(sk)))
```

```
#define sk_OSSL_CRMF_CERTID_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_OSSL_CRMF_CERTID_sk_type(sk),ossl_check_OSSL_CRMF_CERTID_fre
efunc_type(freefunc))
#define sk_OSSL_CRMF_CERTID_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_OSSL_CRMF_CERTID_sk_type(sk),
ossl_check_OSSL_CRMF_CERTID_type(ptr), (idx))
#define sk_OSSL_CRMF_CERTID_set(sk, idx, ptr) ((OSSL_CRMF_CERTID
*)OPENSSL_sk_set(ossl_check_OSSL_CRMF_CERTID_sk_type(sk), (idx),
ossl_check_OSSL_CRMF_CERTID_type(ptr)))
#define sk_OSSL_CRMF_CERTID_find(sk, ptr)
OPENSSL_sk_find(ossl_check_OSSL_CRMF_CERTID_sk_type(sk),
ossl_check_OSSL_CRMF_CERTID_type(ptr))
#define sk_OSSL_CRMF_CERTID_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_OSSL_CRMF_CERTID_sk_type(sk),
ossl_check_OSSL_CRMF_CERTID_type(ptr))
#define sk_OSSL_CRMF_CERTID_find_all(sk,
 ptr, pnum) OPENSSL_sk_find_all(ossl_check_OSSL_CRMF_CERTID_sk_type(sk),
ossl_check_OSSL_CRMF_CERTID_type(ptr), pnum)
#define sk_OSSL_CRMF_CERTID_sort(sk) OPENSSL_sk_sort(ossl_check_OSSL_CRMF_CERTID_sk_type(sk))
#define sk_OSSL_CRMF_CERTID_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_OSSL_CRMF_CERTID_sk_type(sk))
#define sk_OSSL_CRMF_CERTID_dup(sk) ((STACK_OF(OSSL_CRMF_CERTID)
*)OPENSSL_sk_dup(ossl_check_const_OSSL_CRMF_CERTID_sk_type(sk)))
#define sk_OSSL_CRMF_CERTID_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(OSSL_CRMF_CERTID)
*)OPENSSL_sk_deep_copy(ossl_check_const_OSSL_CRMF_CERTID_sk_type(sk),
ossl_check_OSSL_CRMF_CERTID_copyfunc_type(copyfunc),
ossl_check_OSSL_CRMF_CERTID_freefunc_type(freefunc)))
#define sk_OSSL_CRMF_CERTID_set_cmp_func(sk, cmp)
((sk_OSSL_CRMF_CERTID_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_OSSL_CRMF_CERTID_sk_typ
e(sk), ossl_check_OSSL_CRMF_CERTID_compfunc_type(cmp)))


typedef struct ossl_crmf_pkipublicationinfo_st OSSL_CRMF_PKIPUBLICATIONINFO;
DECLARE_ASN1_FUNCTIONS(OSSL_CRMF_PKIPUBLICATIONINFO)
typedef
 struct ossl_crmf_singlepubinfo_st OSSL_CRMF_SINGLEPUBINFO;
DECLARE_ASN1_FUNCTIONS(OSSL_CRMF_SINGLEPUBINFO)
typedef struct ossl_crmf_certtemplate_st OSSL_CRMF_CERTTEMPLATE;
DECLARE_ASN1_FUNCTIONS(OSSL_CRMF_CERTTEMPLATE)
typedef STACK_OF(OSSL_CRMF_MSG) OSSL_CRMF_MSGS;
DECLARE_ASN1_FUNCTIONS(OSSL_CRMF_MSGS)

typedef struct ossl_crmf_optionalvalidity_st OSSL_CRMF_OPTIONALVALIDITY;

/* crmf_pbm.c */
OSSL_CRMF_PBMPARAMETER *OSSL_CRMF_pbmp_new(OSSL_LIB_CTX *libctx, size_t slen,
                                           int owfnid, size_t itercnt,
                                           int macnid);
```

```
int OSSL_CRMF_pbm_new(OSSL_LIB_CTX *libctx, const char *propq,
                      const OSSL_CRMF_PBMPARAMETER *pbmp,
                      const unsigned char *msg, size_t msglen,
                      const unsigned char *sec, size_t seclen,
                      unsigned char **mac, size_t *maclen);

/* crmf_lib.c
 */
int OSSL_CRMF_MSG_set1_regCtrl_regToken(OSSL_CRMF_MSG *msg,
                                        const ASN1_UTF8STRING *tok);
ASN1_UTF8STRING
*OSSL_CRMF_MSG_get0_regCtrl_regToken(const OSSL_CRMF_MSG *msg);
int OSSL_CRMF_MSG_set1_regCtrl_authenticator(OSSL_CRMF_MSG *msg,
                                             const ASN1_UTF8STRING *auth);
ASN1_UTF8STRING
*OSSL_CRMF_MSG_get0_regCtrl_authenticator(const OSSL_CRMF_MSG *msg);
int
OSSL_CRMF_MSG_PKIPublicationInfo_push0_SinglePubInfo(OSSL_CRMF_PKIPUBLICATIONINFO *pi,
                                                     OSSL_CRMF_SINGLEPUBINFO *spi);
#  define OSSL_CRMF_PUB_METHOD_DONTCARE 0
#  define OSSL_CRMF_PUB_METHOD_X500     1
#  define OSSL_CRMF_PUB_METHOD_WEB      2
#  define OSSL_CRMF_PUB_METHOD_LDAP     3
int OSSL_CRMF_MSG_set0_SinglePubInfo(OSSL_CRMF_SINGLEPUBINFO *spi,
                                     int method, GENERAL_NAME *nm);
#  define OSSL_CRMF_PUB_ACTION_DONTPUBLISH   0
#  define OSSL_CRMF_PUB_ACTION_PLEASEPUBLISH
 1
int OSSL_CRMF_MSG_set_PKIPublicationInfo_action(OSSL_CRMF_PKIPUBLICATIONINFO *pi,
                                                int action);
int OSSL_CRMF_MSG_set1_regCtrl_pkiPublicationInfo(OSSL_CRMF_MSG *msg,
                                                  const OSSL_CRMF_PKIPUBLICATIONINFO *pi);
OSSL_CRMF_PKIPUBLICATIONINFO
*OSSL_CRMF_MSG_get0_regCtrl_pkiPublicationInfo(const OSSL_CRMF_MSG *msg);
int OSSL_CRMF_MSG_set1_regCtrl_protocolEncrKey(OSSL_CRMF_MSG *msg,
                                               const X509_PUBKEY *pubkey);
X509_PUBKEY
*OSSL_CRMF_MSG_get0_regCtrl_protocolEncrKey(const OSSL_CRMF_MSG *msg);
int OSSL_CRMF_MSG_set1_regCtrl_oldCertID(OSSL_CRMF_MSG *msg,
                                         const OSSL_CRMF_CERTID *cid);
OSSL_CRMF_CERTID
*OSSL_CRMF_MSG_get0_regCtrl_oldCertID(const OSSL_CRMF_MSG *msg);
OSSL_CRMF_CERTID *OSSL_CRMF_CERTID_gen(const X509_NAME *issuer,
                                       const ASN1_INTEGER *serial);

int OSSL_CRMF_MSG_set1_regInfo_utf8Pairs(OSSL_CRMF_MSG
 *msg,
                                         const ASN1_UTF8STRING *utf8pairs);
```

```
ASN1_UTF8STRING
*OSSL_CRMF_MSG_get0_regInfo_utf8Pairs(const OSSL_CRMF_MSG *msg);
int OSSL_CRMF_MSG_set1_regInfo_certReq(OSSL_CRMF_MSG *msg,
                                       const OSSL_CRMF_CERTREQUEST *cr);
OSSL_CRMF_CERTREQUEST
*OSSL_CRMF_MSG_get0_regInfo_certReq(const OSSL_CRMF_MSG *msg);

int OSSL_CRMF_MSG_set0_validity(OSSL_CRMF_MSG *crm,
                                ASN1_TIME *notBefore, ASN1_TIME *notAfter);
int OSSL_CRMF_MSG_set_certReqId(OSSL_CRMF_MSG *crm, int rid);
int OSSL_CRMF_MSG_get_certReqId(const OSSL_CRMF_MSG *crm);
int OSSL_CRMF_MSG_set0_extensions(OSSL_CRMF_MSG *crm, X509_EXTENSIONS *exts);

int OSSL_CRMF_MSG_push0_extension(OSSL_CRMF_MSG *crm, X509_EXTENSION *ext);
#  define OSSL_CRMF_POPO_NONE       -1
#  define OSSL_CRMF_POPO_RAVERIFIED 0
#  define OSSL_CRMF_POPO_SIGNATURE  1
#  define OSSL_CRMF_POPO_KEYENC     2
#  define OSSL_CRMF_POPO_KEYAGREE
   3
int OSSL_CRMF_MSG_create_popo(int meth, OSSL_CRMF_MSG *crm,
                              EVP_PKEY *pkey, const EVP_MD *digest,
                              OSSL_LIB_CTX *libctx, const char *propq);
int OSSL_CRMF_MSGS_verify_popo(const OSSL_CRMF_MSGS *reqs,
                               int rid, int acceptRAVerified,
                               OSSL_LIB_CTX *libctx, const char *propq);
OSSL_CRMF_CERTTEMPLATE *OSSL_CRMF_MSG_get0_tmpl(const OSSL_CRMF_MSG *crm);
const ASN1_INTEGER
*OSSL_CRMF_CERTTEMPLATE_get0_serialNumber(const OSSL_CRMF_CERTTEMPLATE *tmpl);
const X509_NAME
*OSSL_CRMF_CERTTEMPLATE_get0_subject(const OSSL_CRMF_CERTTEMPLATE *tmpl);
const X509_NAME
*OSSL_CRMF_CERTTEMPLATE_get0_issuer(const OSSL_CRMF_CERTTEMPLATE *tmpl);
X509_EXTENSIONS
*OSSL_CRMF_CERTTEMPLATE_get0_extensions(const OSSL_CRMF_CERTTEMPLATE *tmpl);
const X509_NAME
*OSSL_CRMF_CERTID_get0_issuer(const OSSL_CRMF_CERTID *cid);
const ASN1_INTEGER
*OSSL_CRMF_CERTID_get0_serialNumber(const
 OSSL_CRMF_CERTID *cid);
int OSSL_CRMF_CERTTEMPLATE_fill(OSSL_CRMF_CERTTEMPLATE *tmpl,
                                EVP_PKEY *pubkey,
                                const X509_NAME *subject,
                                const X509_NAME *issuer,
                                const ASN1_INTEGER *serial);
X509
*OSSL_CRMF_ENCRYPTEDVALUE_get1_encCert(const OSSL_CRMF_ENCRYPTEDVALUE *ecert,
                                       OSSL_LIB_CTX *libctx, const char *propq,
```

```
                                EVP_PKEY *pkey);

# ifdef __cplusplus
}
# endif
# endif /* !defined(OPENSSL_NO_CRMF) */
#endif /* !defined(OPENSSL_CRMF_H) */
```

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```
<!-- DO NOT EDIT! Generated by `%(generating_script_filename)s --spec %(spec_directory)s/` -->
{
 'variables': {
   'openssl_sources': [
     'openssl/crypto/aes/aes_cbc.c',
     'openssl/crypto/aes/aes_core.c',
     'openssl/crypto/aes/aes_ecb.c',
     'openssl/crypto/aes/aes_misc.c',
     'openssl/crypto/bn/bn_add.c',
     'openssl/crypto/bn/bn_asm.c',
     'openssl/crypto/bn/bn_blind.c',
     'openssl/crypto/bn/bn_const.c',
     'openssl/crypto/bn/bn_conv.c',
     'openssl/crypto/bn/bn_ctx.c',
     'openssl/crypto/bn/bn_dh.c',
     'openssl/crypto/bn/bn_div.c',
     'openssl/crypto/bn/bn_exp.c',
     'openssl/crypto/bn/bn_exp2.c',
     'openssl/crypto/bn/bn_gcd.c',
     'openssl/crypto/bn/bn_gf2m.c',
     'openssl/crypto/bn/bn_intern.c',
     'openssl/crypto/bn/bn_kron.c',
     'openssl/crypto/bn/bn_lib.c',
     'openssl/crypto/bn/bn_mod.c',
     'openssl/crypto/bn/bn_mont.c',
     'openssl/crypto/bn/bn_mpi.c',
     'openssl/crypto/bn/bn_mul.c',
     'openssl/crypto/bn/bn_nist.c',
     'openssl/crypto/bn/bn_prime.c',
     'openssl/crypto/bn/bn_rand.c',
      'openssl/crypto/bn/bn_recp.c',
     'openssl/crypto/bn/bn_rsa_fips186_4.c',
     'openssl/crypto/bn/bn_shift.c',
     'openssl/crypto/bn/bn_sqr.c',
     'openssl/crypto/bn/bn_sqrt.c',
     'openssl/crypto/bn/bn_word.c',
     'openssl/crypto/buffer/buffer.c',
     'openssl/crypto/cmac/cmac.c',
     'openssl/crypto/des/des_enc.c',
     'openssl/crypto/des/ecb3_enc.c',
     'openssl/crypto/des/fcrypt_b.c',
     'openssl/crypto/des/set_key.c',
     'openssl/crypto/dh/dh_backend.c',
```

'openssl/crypto/dh/dh_check.c',
'openssl/crypto/dh/dh_gen.c',
'openssl/crypto/dh/dh_group_params.c',
'openssl/crypto/dh/dh_kdf.c',
'openssl/crypto/dh/dh_key.c',
'openssl/crypto/dh/dh_lib.c',
'openssl/crypto/dsa/dsa_backend.c',
'openssl/crypto/dsa/dsa_check.c',
'openssl/crypto/dsa/dsa_gen.c',
'openssl/crypto/dsa/dsa_key.c',
'openssl/crypto/dsa/dsa_lib.c',
'openssl/crypto/dsa/dsa_ossl.c',
'openssl/crypto/dsa/dsa_sign.c',
'openssl/crypto/dsa/dsa_vrf.c',
'openssl/crypto/ec/curve448/arch_32/f_impl32.c',
'openssl/crypto/ec/curve448/arch_64/f_impl64.c',
'openssl/crypto/ec/curve448/curve448.c',
'openssl/crypto/ec/curve448/curve448_tables.c',
'openssl/crypto/ec/curve448/eddsa.c',
'openssl/crypto/ec/curve448/f_generic.c',
'openssl/crypto/ec/curve448/scalar.c',
'openssl/crypto/ec/curve25519.c',
'openssl/crypto/ec/ec2_oct.c',
'openssl/crypto/ec/ec2_smpl.c',
'openssl/crypto/ec/ec_asn1.c',
'openssl/crypto/ec/ec_backend.c',
'openssl/crypto/ec/ec_check.c',
'openssl/crypto/ec/ec_curve.c',
'openssl/crypto/ec/ec_cvt.c',
'openssl/crypto/ec/ec_key.c',
'openssl/crypto/ec/ec_kmeth.c',
'openssl/crypto/ec/ec_lib.c',
'openssl/crypto/ec/ec_mult.c',
'openssl/crypto/ec/ec_oct.c',
'openssl/crypto/ec/ecdh_kdf.c',
'openssl/crypto/ec/ecdh_ossl.c',
'openssl/crypto/ec/ecdsa_ossl.c',

'openssl/crypto/ec/ecdsa_sign.c',
'openssl/crypto/ec/ecdsa_vrf.c',
'openssl/crypto/ec/ecp_mont.c',
'openssl/crypto/ec/ecp_nist.c',
'openssl/crypto/ec/ecp_oct.c',
'openssl/crypto/ec/ecp_smpl.c',
'openssl/crypto/ec/ecx_backend.c',
'openssl/crypto/ec/ecx_key.c',
'openssl/crypto/evp/asymcipher.c',
'openssl/crypto/evp/dh_support.c',

'openssl/crypto/evp/digest.c',
'openssl/crypto/evp/ec_support.c',
'openssl/crypto/evp/evp_enc.c',
'openssl/crypto/evp/evp_fetch.c',
'openssl/crypto/evp/evp_lib.c',
'openssl/crypto/evp/evp_rand.c',
'openssl/crypto/evp/evp_utils.c',
'openssl/crypto/evp/exchange.c',
'openssl/crypto/evp/kdf_lib.c',
'openssl/crypto/evp/kdf_meth.c',
'openssl/crypto/evp/kem.c',
'openssl/crypto/evp/keymgmt_lib.c',
'openssl/crypto/evp/keymgmt_meth.c',
'openssl/crypto/evp/m_sigver.c',
'openssl/crypto/evp/mac_lib.c',
'openssl/crypto/evp/mac_meth.c',
'openssl/crypto/evp/p_lib.c',
'openssl/crypto/evp/pmeth_check.c',
'openssl/crypto/evp/pmeth_gn.c',
'openssl/crypto/evp/pmeth_lib.c',
'openssl/crypto/evp/signature.c',
'openssl/crypto/ffc/ffc_backend.c',
'openssl/crypto/ffc/ffc_dh.c',
'openssl/crypto/ffc/ffc_key_generate.c',
'openssl/crypto/ffc/ffc_key_validate.c',
'openssl/crypto/ffc/ffc_params.c',
'openssl/crypto/ffc/ffc_params_generate.c',
'openssl/crypto/ffc/ffc_params_validate.c',
'openssl/crypto/hmac/hmac.c',
'openssl/crypto/lhash/lhash.c',
'openssl/crypto/asn1_dsa.c',
'openssl/crypto/bsearch.c',
'openssl/crypto/context.c',
'openssl/crypto/core_algorithm.c',
'openssl/crypto/core_fetch.c',
'openssl/crypto/core_namemap.c',
'openssl/crypto/cpuid.c',
'openssl/crypto/cryptlib.c',
'openssl/crypto/ctype.c',
'openssl/crypto/der_writer.c',
'openssl/crypto/ex_data.c',
'openssl/crypto/initthread.c',
'openssl/crypto/mem_clr.c',
'openssl/crypto/o_str.c',
'openssl/crypto/packet.c',
'openssl/crypto/param_build.c',
'openssl/crypto/param_build_set.c',
'openssl/crypto/params.c',

'openssl/crypto/params_dup.c',
'openssl/crypto/params_from_text.c',
'openssl/crypto/provider_core.c',
'openssl/crypto/provider_predefined.c',
'openssl/crypto/self_test_core.c',
'openssl/crypto/sparse_array.c',
'openssl/crypto/threads_lib.c',
'openssl/crypto/threads_none.c',
'openssl/crypto/threads_pthread.c',
'openssl/crypto/threads_win.c',
'openssl/crypto/modes/cbc128.c',
'openssl/crypto/modes/ccm128.c',
'openssl/crypto/modes/cfb128.c',
'openssl/crypto/modes/ctr128.c',
'openssl/crypto/modes/gcm128.c',
'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/wrap128.c',
'openssl/crypto/modes/xts128.c',
'openssl/crypto/property/defn_cache.c',

'openssl/crypto/property/property.c',
'openssl/crypto/property/property_parse.c',
'openssl/crypto/property/property_query.c',
'openssl/crypto/property/property_string.c',
'openssl/crypto/rand/rand_lib.c',
'openssl/crypto/rsa/rsa_acvp_test_params.c',
'openssl/crypto/rsa/rsa_backend.c',
'openssl/crypto/rsa/rsa_chk.c',
'openssl/crypto/rsa/rsa_crpt.c',
'openssl/crypto/rsa/rsa_gen.c',
'openssl/crypto/rsa/rsa_lib.c',
'openssl/crypto/rsa/rsa_mp_names.c',
'openssl/crypto/rsa/rsa_none.c',
'openssl/crypto/rsa/rsa_oaep.c',
'openssl/crypto/rsa/rsa_ossl.c',
'openssl/crypto/rsa/rsa_pk1.c',
'openssl/crypto/rsa/rsa_pss.c',
'openssl/crypto/rsa/rsa_schemes.c',
'openssl/crypto/rsa/rsa_sign.c',
'openssl/crypto/rsa/rsa_sp800_56b_check.c',
'openssl/crypto/rsa/rsa_sp800_56b_gen.c',
'openssl/crypto/rsa/rsa_x931.c',
'openssl/crypto/sha/keccak1600.c',
'openssl/crypto/sha/sha1dgst.c',
'openssl/crypto/sha/sha256.c',
'openssl/crypto/sha/sha3.c',
'openssl/crypto/sha/sha512.c',
'openssl/crypto/stack/stack.c',

'openssl/providers/common/der/der_rsa_sig.c',
'openssl/providers/common/bio_prov.c',
'openssl/providers/common/capabilities.c',
'openssl/providers/common/digest_to_nid.c',
'openssl/providers/common/provider_seeding.c',
'openssl/providers/common/provider_util.c',
'openssl/providers/common/securitycheck.c',
'openssl/providers/common/securitycheck_fips.c',
'openssl/providers/fips/fipsprov.c',
'openssl/providers/fips/self_test.c',
'openssl/providers/fips/self_test_kats.c',
'openssl/providers/implementations/asymciphers/rsa_enc.c',
'openssl/providers/implementations/ciphers/cipher_aes.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha1_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha256_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_ccm.c',
'openssl/providers/implementations/ciphers/cipher_aes_ccm_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_gcm.c',
'openssl/providers/implementations/ciphers/cipher_aes_gcm_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_ocb.c',
'openssl/providers/implementations/ciphers/cipher_aes_ocb_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_wrp.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts_fips.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts_hw.c',
'openssl/providers/implementations/ciphers/cipher_cts.c',
'openssl/providers/implementations/ciphers/cipher_tdes.c',
'openssl/providers/implementations/ciphers/cipher_tdes_common.c',
'openssl/providers/implementations/ciphers/cipher_tdes_hw.c',
'openssl/providers/implementations/digests/sha2_prov.c',
'openssl/providers/implementations/digests/sha3_prov.c',
'openssl/providers/implementations/exchange/dh_exch.c',
'openssl/providers/implementations/exchange/ecdh_exch.c',
'openssl/providers/implementations/exchange/ecx_exch.c',
'openssl/providers/implementations/exchange/kdf_exch.c',
'openssl/providers/implementations/kdfs/hkdf.c',
'openssl/providers/implementations/kdfs/kbkdf.c',
'openssl/providers/implementations/kdfs/pbkdf2.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
'openssl/providers/implementations/kdfs/tls1_prf.c',
'openssl/providers/implementations/kdfs/x942kdf.c',
'openssl/providers/implementations/kem/rsa_kem.c',

```
'openssl/providers/implementations/keymgmt/dh_kmgmt.c',
  'openssl/providers/implementations/keymgmt/dsa_kmgmt.c',
  'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
  'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',
  'openssl/providers/implementations/keymgmt/kdf_legacy_kmgmt.c',
  'openssl/providers/implementations/keymgmt/mac_legacy_kmgmt.c',
  'openssl/providers/implementations/keymgmt/rsa_kmgmt.c',
  'openssl/providers/implementations/macs/cmac_prov.c',
  'openssl/providers/implementations/macs/gmac_prov.c',
  'openssl/providers/implementations/macs/hmac_prov.c',
  'openssl/providers/implementations/macs/kmac_prov.c',
  'openssl/providers/implementations/rands/crngt.c',
  'openssl/providers/implementations/rands/drbg.c',
  'openssl/providers/implementations/rands/drbg_ctr.c',
  'openssl/providers/implementations/rands/drbg_hash.c',
  'openssl/providers/implementations/rands/drbg_hmac.c',
  'openssl/providers/implementations/rands/test_rng.c',
   'openssl/providers/implementations/signature/dsa_sig.c',
  'openssl/providers/implementations/signature/ecdsa_sig.c',
  'openssl/providers/implementations/signature/eddsa_sig.c',
  'openssl/providers/implementations/signature/mac_legacy_sig.c',
  'openssl/providers/implementations/signature/rsa_sig.c',
  'openssl/ssl/s3_cbc.c',
  'openssl/providers/common/der/der_dsa_key.c',
  'openssl/providers/common/der/der_dsa_sig.c',
  'openssl/providers/common/der/der_ec_key.c',
  'openssl/providers/common/der/der_ec_sig.c',
  'openssl/providers/common/der/der_ecx_key.c',
  'openssl/providers/common/der/der_rsa_key.c',
  'openssl/providers/common/provider_ctx.c',
  'openssl/providers/common/provider_err.c',
  'openssl/providers/implementations/ciphers/ciphercommon.c',
  'openssl/providers/implementations/ciphers/ciphercommon_block.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
   'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
  'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
  'openssl/providers/implementations/digests/digestcommon.c',
  'openssl/ssl/record/tls_pad.c',
  'openssl/providers/fips/fips_entry.c',

],
'openssl_sources_BSD-x86': [
  './config/archs/BSD-x86/no-asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86/no-asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/no-asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86/no-asm/providers/common/der/der_ec_gen.c',
```

```
    './config/archs/BSD-x86/no-asm/providers/common/der/der_ecx_gen.c',
    './config/archs/BSD-x86/no-asm/providers/common/der/der_rsa_gen.c',
    './config/archs/BSD-x86/no-asm/providers/common/der/der_wrap_gen.c',
     './config/archs/BSD-x86/no-asm/providers/legacy.ld',
    './config/archs/BSD-x86/no-asm/providers/fips.ld',

  ],
  'openssl_defines_BSD-x86': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'FIPS_MODULE',
    'FIPS_MODULE',
  ],
  'openssl_cflags_BSD-x86': [
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
  'linker_script': ''
 },
 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags': ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],

 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
```

This license applies to parts of libuv originating from the
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====

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====

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```
{
 'variables': {
   'openssl_defines_BSD-x86_64': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'AES_ASM',
     'BSAES_ASM',
     'CMLL_ASM',
     'ECP_NISTZ256_ASM',
     'GHASH_ASM',
     'KECCAK1600_ASM',
     'MD5_ASM',
     'OPENSSL_BN_ASM_GF2m',
     'OPENSSL_BN_ASM_MONT',
     'OPENSSL_BN_ASM_MONT5',
     'OPENSSL_CPUID_OBJ',
     'OPENSSL_IA32_SSE2',
```

```
  'PADLOCK_ASM',
  'POLY1305_ASM',
  'RC4_ASM',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'VPAES_ASM',
  'WHIRLPOOL_ASM',
  'X25519_ASM',
  'OPENSSL_PIC',
],
'openssl_cflags_BSD-x86_64': [
  '-Wa,--noexecstack',
  '-Wall -O3',
  '-pthread',
  '-Wall -O3',
],
'openssl_ex_libs_BSD-x86_64': [
  '-pthread',
],
'openssl_cli_srcs_BSD-x86_64': [
  'openssl/apps/lib/cmp_mock_srv.c',
  'openssl/apps/asn1parse.c',
  'openssl/apps/ca.c',
  'openssl/apps/ciphers.c',
  'openssl/apps/cmp.c',

 'openssl/apps/cms.c',
  'openssl/apps/crl.c',
  'openssl/apps/crl2pkcs7.c',
  'openssl/apps/dgst.c',
  'openssl/apps/dhparam.c',
  'openssl/apps/dsa.c',
  'openssl/apps/dsaparam.c',
  'openssl/apps/ec.c',
  'openssl/apps/ecparam.c',
  'openssl/apps/enc.c',
  'openssl/apps/engine.c',
  'openssl/apps/errstr.c',
  'openssl/apps/fipsinstall.c',
  'openssl/apps/gendsa.c',
  'openssl/apps/genpkey.c',
  'openssl/apps/genrsa.c',
  'openssl/apps/info.c',
  'openssl/apps/kdf.c',
  'openssl/apps/list.c',
  'openssl/apps/mac.c',
  'openssl/apps/nseq.c',
```

```
  'openssl/apps/ocsp.c',
  'openssl/apps/openssl.c',
  'openssl/apps/passwd.c',
  'openssl/apps/pkcs12.c',
  'openssl/apps/pkcs7.c',
  'openssl/apps/pkcs8.c',
  'openssl/apps/pkey.c',
  'openssl/apps/pkeyparam.c',
  'openssl/apps/pkeyutl.c',
  'openssl/apps/prime.c',
  './config/archs/BSD-x86_64/asm_avx2/apps/progs.c',

'openssl/apps/rand.c',
  'openssl/apps/rehash.c',
  'openssl/apps/req.c',
  'openssl/apps/rsa.c',
  'openssl/apps/rsautl.c',
  'openssl/apps/s_client.c',
  'openssl/apps/s_server.c',
  'openssl/apps/s_time.c',
  'openssl/apps/sess_id.c',
  'openssl/apps/smime.c',
  'openssl/apps/speed.c',
  'openssl/apps/spkac.c',
  'openssl/apps/srp.c',
  'openssl/apps/storeutl.c',
  'openssl/apps/ts.c',
  'openssl/apps/verify.c',
  'openssl/apps/version.c',
  'openssl/apps/x509.c',
  'openssl/apps/lib/app_libctx.c',
  'openssl/apps/lib/app_params.c',
  'openssl/apps/lib/app_provider.c',
  'openssl/apps/lib/app_rand.c',
  'openssl/apps/lib/app_x509.c',
  'openssl/apps/lib/apps.c',
  'openssl/apps/lib/apps_ui.c',
  'openssl/apps/lib/columns.c',
  'openssl/apps/lib/engine.c',
  'openssl/apps/lib/engine_loader.c',
  'openssl/apps/lib/fmt.c',
  'openssl/apps/lib/http_server.c',
  'openssl/apps/lib/names.c',
   'openssl/apps/lib/opt.c',
  'openssl/apps/lib/s_cb.c',
  'openssl/apps/lib/s_socket.c',
  'openssl/apps/lib/tlssrp_depr.c',
],
```

```
 },
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'include_dirs': [
   './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
}
```

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```
/*
* WARNING: do not edit!
* Generated by util/mkbuildinf.pl
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*/

#define PLATFORM "platform: BSD-x86"
#define DATE "built on: Wed Mar  5 20:59:02 2025 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
   'c','o','m','p','i','l','e','r',':',' ','g','c','c',' ','-','f',
   'P','I','C',' ','-','p','t','h','r','e','a','d',' ','-','W','a',
   ',','-','-','n','o','e','x','e','c','s','t','a','c','k',' ','-',
```

```
  'W','a','l','l',' ','-','O','3',' ','-','f','o','m','i','t','-',
  'f','r','a','m','e','-','p','o','i','n','t','e','r','
','-','D',
  'L','_','E','N','D','I','A','N',' ','-','D','O','P','E','N','S',
  'S','L','_','P','I','C',' ','-','D','_','T','H','R','E','A','D',
  '_','S','A','F','E',' ','-','D','_','R','E','E','N','T','R','A',
  'N','T',' ','-','D','O','P','E','N','S','S','L','_','B','U','I',
  'L','D','I','N','G','_','O','P','E','N','S','S','L',' ','-','D',
  'N','D','E','B','U','G','\0'
};
```

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Version 1.0.0

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```
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* WARNING: do not edit!
* Generated by util/mkbuildinf.pl
*
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*/

#define PLATFORM "platform: BSD-x86"
#define DATE "built on: Wed Mar  5 20:59:28 2025 UTC"
```

```
/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
   'c','o','m','p','i','l','e','r',':',' ','c','c',' ','-','f','P',
   'I','C',' ','-','p','t','h','r','e','a','d',' ','-','W','a','l',
   'l',' ','-','O','3',' ','-','f','o','m','i','t','-','f','r','a',
   'm','e','-','p','o','i','n','t','e','r',' ','-','D','L','_','E',
   'N','D','I','A','N','
 ','-','D','O','P','E','N','S','S','L','_',
   'P','I','C',' ','-','D','_','T','H','R','E','A','D','_','S','A',
   'F','E',' ','-','D','_','R','E','E','N','T','R','A','N','T',' ',
   '-','D','O','P','E','N','S','S','L','_','B','U','I','L','D','I',
   'N','G','_','O','P','E','N','S','S','L',' ','-','D','N','D','E',
   'B','U','G','\0'
};
```

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```
/*
* WARNING: do not edit!
* Generated by configdata.pm from Configurations/common0.tmpl, Configurations/unix-Makefile.tmpl
* via Makefile.in
*
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* https://www.openssl.org/source/license.html
*/

#ifndef OPENSSL_CONFIGURATION_H
# define OPENSSL_CONFIGURATION_H
# pragma once

# ifdef  __cplusplus
extern "C" {
# endif

# ifdef OPENSSL_ALGORITHM_DEFINES
#  error OPENSSL_ALGORITHM_DEFINES no longer supported
# endif

/*
* OpenSSL was configured with the following options:
*/

# define OPENSSL_CONFIGURED_API 30000
# ifndef OPENSSL_RAND_SEED_OS
#  define OPENSSL_RAND_SEED_OS
# endif
# ifndef OPENSSL_THREADS
#  define OPENSSL_THREADS
# endif
# ifndef OPENSSL_NO_AFALGENG
#  define OPENSSL_NO_AFALGENG
# endif
# ifndef
 OPENSSL_NO_ASAN
#  define OPENSSL_NO_ASAN
# endif
# ifndef OPENSSL_NO_COMP
#  define OPENSSL_NO_COMP
# endif
# ifndef OPENSSL_NO_CRYPTO_MDEBUG
#  define OPENSSL_NO_CRYPTO_MDEBUG
```

```
# endif
# ifndef OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
#  define OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
# endif
# ifndef OPENSSL_NO_EC_NISTP_64_GCC_128
#  define OPENSSL_NO_EC_NISTP_64_GCC_128
# endif
# ifndef OPENSSL_NO_EGD
#  define OPENSSL_NO_EGD
# endif
# ifndef OPENSSL_NO_EXTERNAL_TESTS
#  define OPENSSL_NO_EXTERNAL_TESTS
# endif
# ifndef OPENSSL_NO_FUZZ_AFL
#  define OPENSSL_NO_FUZZ_AFL
# endif
# ifndef OPENSSL_NO_FUZZ_LIBFUZZER
#  define OPENSSL_NO_FUZZ_LIBFUZZER
# endif
# ifndef OPENSSL_NO_KTLS
#  define OPENSSL_NO_KTLS
# endif
# ifndef OPENSSL_NO_LOADERENG
#  define OPENSSL_NO_LOADERENG
# endif
# ifndef OPENSSL_NO_MD2
#  define OPENSSL_NO_MD2
# endif
# ifndef OPENSSL_NO_MSAN
#  define OPENSSL_NO_MSAN
# endif
# ifndef OPENSSL_NO_RC5
#  define OPENSSL_NO_RC5
# endif
# ifndef OPENSSL_NO_SCTP
#  define OPENSSL_NO_SCTP
#
 endif
# ifndef OPENSSL_NO_SSL3
#  define OPENSSL_NO_SSL3
# endif
# ifndef OPENSSL_NO_SSL3_METHOD
#  define OPENSSL_NO_SSL3_METHOD
# endif
# ifndef OPENSSL_NO_TRACE
#  define OPENSSL_NO_TRACE
# endif
# ifndef OPENSSL_NO_UBSAN
```

```
#  define OPENSSL_NO_UBSAN
# endif
# ifndef OPENSSL_NO_UNIT_TEST
#  define OPENSSL_NO_UNIT_TEST
# endif
# ifndef OPENSSL_NO_UPLINK
#  define OPENSSL_NO_UPLINK
# endif
# ifndef OPENSSL_NO_WEAK_SSL_CIPHERS
#  define OPENSSL_NO_WEAK_SSL_CIPHERS
# endif
# ifndef OPENSSL_NO_DYNAMIC_ENGINE
#  define OPENSSL_NO_DYNAMIC_ENGINE
# endif


/* Generate 80386 code? */
# undef I386_ONLY

/*
* The following are cipher-specific, but are part of the public API.
*/
# if !defined(OPENSSL_SYS_UEFI)
#  undef BN_LLONG
/* Only one for the following should be defined */
#  define SIXTY_FOUR_BIT_LONG
#  undef SIXTY_FOUR_BIT
#  undef THIRTY_TWO_BIT
# endif

# define RC4_INT unsigned int

# ifdef  __cplusplus
}
# endif

#endif                          /* OPENSSL_CONFIGURATION_H
 */
```

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```
{
 'variables': {
   'openssl_sources': [
     'openssl/crypto/aes/aes_ecb.c',
     'openssl/crypto/aes/aes_misc.c',
     'openssl/crypto/bn/bn_add.c',
     'openssl/crypto/bn/bn_blind.c',
     'openssl/crypto/bn/bn_const.c',
     'openssl/crypto/bn/bn_conv.c',
     'openssl/crypto/bn/bn_ctx.c',
     'openssl/crypto/bn/bn_dh.c',
     'openssl/crypto/bn/bn_div.c',
     'openssl/crypto/bn/bn_exp.c',
     'openssl/crypto/bn/bn_exp2.c',
     'openssl/crypto/bn/bn_gcd.c',
     'openssl/crypto/bn/bn_gf2m.c',
     'openssl/crypto/bn/bn_intern.c',
     'openssl/crypto/bn/bn_kron.c',
     'openssl/crypto/bn/bn_lib.c',
     'openssl/crypto/bn/bn_mod.c',
     'openssl/crypto/bn/bn_mont.c',
     'openssl/crypto/bn/bn_mpi.c',
     'openssl/crypto/bn/bn_mul.c',
     'openssl/crypto/bn/bn_nist.c',
     'openssl/crypto/bn/bn_prime.c',
     'openssl/crypto/bn/bn_rand.c',
     'openssl/crypto/bn/bn_recp.c',
     'openssl/crypto/bn/bn_rsa_fips186_4.c',
     'openssl/crypto/bn/bn_shift.c',
      'openssl/crypto/bn/bn_sqr.c',
     'openssl/crypto/bn/bn_sqrt.c',
     'openssl/crypto/bn/bn_word.c',
     'openssl/crypto/buffer/buffer.c',
     'openssl/crypto/cmac/cmac.c',
     'openssl/crypto/des/ecb3_enc.c',
     'openssl/crypto/des/set_key.c',
     'openssl/crypto/dh/dh_backend.c',
     'openssl/crypto/dh/dh_check.c',
     'openssl/crypto/dh/dh_gen.c',
     'openssl/crypto/dh/dh_group_params.c',
```

'openssl/crypto/dh/dh_kdf.c',
'openssl/crypto/dh/dh_key.c',
'openssl/crypto/dh/dh_lib.c',
'openssl/crypto/dsa/dsa_backend.c',
'openssl/crypto/dsa/dsa_check.c',
'openssl/crypto/dsa/dsa_gen.c',
'openssl/crypto/dsa/dsa_key.c',
'openssl/crypto/dsa/dsa_lib.c',
'openssl/crypto/dsa/dsa_ossl.c',
'openssl/crypto/dsa/dsa_sign.c',
'openssl/crypto/dsa/dsa_vrf.c',
'openssl/crypto/ec/curve448/arch_32/f_impl32.c',
'openssl/crypto/ec/curve448/arch_64/f_impl64.c',
'openssl/crypto/ec/curve448/curve448.c',
'openssl/crypto/ec/curve448/curve448_tables.c',
'openssl/crypto/ec/curve448/eddsa.c',
'openssl/crypto/ec/curve448/f_generic.c',
'openssl/crypto/ec/curve448/scalar.c',
'openssl/crypto/ec/curve25519.c',
'openssl/crypto/ec/ec2_oct.c',
'openssl/crypto/ec/ec2_smpl.c',
'openssl/crypto/ec/ec_asn1.c',
'openssl/crypto/ec/ec_backend.c',
'openssl/crypto/ec/ec_check.c',
'openssl/crypto/ec/ec_curve.c',
'openssl/crypto/ec/ec_cvt.c',
'openssl/crypto/ec/ec_key.c',
'openssl/crypto/ec/ec_kmeth.c',
'openssl/crypto/ec/ec_lib.c',
'openssl/crypto/ec/ec_mult.c',
'openssl/crypto/ec/ec_oct.c',
'openssl/crypto/ec/ecdh_kdf.c',
'openssl/crypto/ec/ecdh_ossl.c',
'openssl/crypto/ec/ecdsa_ossl.c',
'openssl/crypto/ec/ecdsa_sign.c',
'openssl/crypto/ec/ecdsa_vrf.c',
'openssl/crypto/ec/ecp_mont.c',
'openssl/crypto/ec/ecp_nist.c',
'openssl/crypto/ec/ecp_nistz256.c',
'openssl/crypto/ec/ecp_oct.c',
'openssl/crypto/ec/ecp_smpl.c',
'openssl/crypto/ec/ecx_backend.c',
'openssl/crypto/ec/ecx_key.c',
'openssl/crypto/evp/asymcipher.c',
'openssl/crypto/evp/dh_support.c',
'openssl/crypto/evp/digest.c',
'openssl/crypto/evp/ec_support.c',
'openssl/crypto/evp/evp_enc.c',

'openssl/crypto/evp/evp_fetch.c',
'openssl/crypto/evp/evp_lib.c',
'openssl/crypto/evp/evp_rand.c',
'openssl/crypto/evp/evp_utils.c',
'openssl/crypto/evp/exchange.c',
'openssl/crypto/evp/kdf_lib.c',
'openssl/crypto/evp/kdf_meth.c',
'openssl/crypto/evp/kem.c',
'openssl/crypto/evp/keymgmt_lib.c',
'openssl/crypto/evp/keymgmt_meth.c',
'openssl/crypto/evp/m_sigver.c',
'openssl/crypto/evp/mac_lib.c',
'openssl/crypto/evp/mac_meth.c',
'openssl/crypto/evp/p_lib.c',
'openssl/crypto/evp/pmeth_check.c',
'openssl/crypto/evp/pmeth_gn.c',
'openssl/crypto/evp/pmeth_lib.c',
'openssl/crypto/evp/signature.c',
'openssl/crypto/ffc/ffc_backend.c',
'openssl/crypto/ffc/ffc_dh.c',
'openssl/crypto/ffc/ffc_key_generate.c',
'openssl/crypto/ffc/ffc_key_validate.c',
'openssl/crypto/ffc/ffc_params.c',
'openssl/crypto/ffc/ffc_params_generate.c',
'openssl/crypto/ffc/ffc_params_validate.c',
'openssl/crypto/hmac/hmac.c',
'openssl/crypto/lhash/lhash.c',
'openssl/crypto/asn1_dsa.c',
'openssl/crypto/bsearch.c',
'openssl/crypto/context.c',
'openssl/crypto/core_algorithm.c',
'openssl/crypto/core_fetch.c',
'openssl/crypto/core_namemap.c',
'openssl/crypto/cpuid.c',
'openssl/crypto/cryptlib.c',
'openssl/crypto/ctype.c',
'openssl/crypto/der_writer.c',
'openssl/crypto/ex_data.c',
'openssl/crypto/initthread.c',
'openssl/crypto/o_str.c',
'openssl/crypto/packet.c',
'openssl/crypto/param_build.c',
'openssl/crypto/param_build_set.c',
'openssl/crypto/params.c',
'openssl/crypto/params_dup.c',
'openssl/crypto/params_from_text.c',
'openssl/crypto/provider_core.c',
'openssl/crypto/provider_predefined.c',

'openssl/crypto/self_test_core.c',
'openssl/crypto/sparse_array.c',
'openssl/crypto/threads_lib.c',
'openssl/crypto/threads_none.c',
'openssl/crypto/threads_pthread.c',
'openssl/crypto/threads_win.c',
'openssl/crypto/modes/cbc128.c',
'openssl/crypto/modes/ccm128.c',
'openssl/crypto/modes/cfb128.c',
'openssl/crypto/modes/ctr128.c',
'openssl/crypto/modes/gcm128.c',
'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/wrap128.c',
'openssl/crypto/modes/xts128.c',
'openssl/crypto/property/defn_cache.c',
'openssl/crypto/property/property.c',
'openssl/crypto/property/property_parse.c',
'openssl/crypto/property/property_query.c',
'openssl/crypto/property/property_string.c',
'openssl/crypto/rand/rand_lib.c',
'openssl/crypto/rsa/rsa_acvp_test_params.c',
'openssl/crypto/rsa/rsa_backend.c',
'openssl/crypto/rsa/rsa_chk.c',
'openssl/crypto/rsa/rsa_crpt.c',
'openssl/crypto/rsa/rsa_gen.c',
'openssl/crypto/rsa/rsa_lib.c',
'openssl/crypto/rsa/rsa_mp_names.c',
'openssl/crypto/rsa/rsa_none.c',
'openssl/crypto/rsa/rsa_oaep.c',
'openssl/crypto/rsa/rsa_ossl.c',
'openssl/crypto/rsa/rsa_pk1.c',
'openssl/crypto/rsa/rsa_pss.c',
'openssl/crypto/rsa/rsa_schemes.c',
'openssl/crypto/rsa/rsa_sign.c',
'openssl/crypto/rsa/rsa_sp800_56b_check.c',
'openssl/crypto/rsa/rsa_sp800_56b_gen.c',
'openssl/crypto/rsa/rsa_x931.c',
'openssl/crypto/sha/keccak1600.c',
'openssl/crypto/sha/sha1dgst.c',
'openssl/crypto/sha/sha256.c',
'openssl/crypto/sha/sha3.c',
'openssl/crypto/sha/sha512.c',
'openssl/crypto/stack/stack.c',
'openssl/providers/common/der/der_rsa_sig.c',
'openssl/providers/common/bio_prov.c',
'openssl/providers/common/capabilities.c',
'openssl/providers/common/digest_to_nid.c',
'openssl/providers/common/provider_seeding.c',

'openssl/providers/common/provider_util.c',
'openssl/providers/common/securitycheck.c',
'openssl/providers/common/securitycheck_fips.c',
'openssl/providers/fips/fipsprov.c',
'openssl/providers/fips/self_test.c',
'openssl/providers/fips/self_test_kats.c',
'openssl/providers/implementations/asymciphers/rsa_enc.c',
'openssl/providers/implementations/ciphers/cipher_aes.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha1_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha256_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_ccm.c',
'openssl/providers/implementations/ciphers/cipher_aes_ccm_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_gcm.c',
'openssl/providers/implementations/ciphers/cipher_aes_gcm_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_ocb.c',
'openssl/providers/implementations/ciphers/cipher_aes_ocb_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_wrp.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts_fips.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts_hw.c',
'openssl/providers/implementations/ciphers/cipher_cts.c',
'openssl/providers/implementations/ciphers/cipher_tdes.c',
'openssl/providers/implementations/ciphers/cipher_tdes_common.c',
'openssl/providers/implementations/ciphers/cipher_tdes_hw.c',
'openssl/providers/implementations/digests/sha2_prov.c',
'openssl/providers/implementations/digests/sha3_prov.c',
'openssl/providers/implementations/exchange/dh_exch.c',
'openssl/providers/implementations/exchange/ecdh_exch.c',
'openssl/providers/implementations/exchange/ecx_exch.c',
'openssl/providers/implementations/exchange/kdf_exch.c',
'openssl/providers/implementations/kdfs/hkdf.c',
'openssl/providers/implementations/kdfs/kbkdf.c',
'openssl/providers/implementations/kdfs/pbkdf2.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
'openssl/providers/implementations/kdfs/tls1_prf.c',
'openssl/providers/implementations/kdfs/x942kdf.c',
'openssl/providers/implementations/kem/rsa_kem.c',
'openssl/providers/implementations/keymgmt/dh_kmgmt.c',
'openssl/providers/implementations/keymgmt/dsa_kmgmt.c',
'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',
'openssl/providers/implementations/keymgmt/kdf_legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/mac_legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/rsa_kmgmt.c',

```
  'openssl/providers/implementations/macs/cmac_prov.c',
  'openssl/providers/implementations/macs/gmac_prov.c',
  'openssl/providers/implementations/macs/hmac_prov.c',
  'openssl/providers/implementations/macs/kmac_prov.c',
  'openssl/providers/implementations/rands/crngt.c',
  'openssl/providers/implementations/rands/drbg.c',
  'openssl/providers/implementations/rands/drbg_ctr.c',
  'openssl/providers/implementations/rands/drbg_hash.c',
  'openssl/providers/implementations/rands/drbg_hmac.c',
  'openssl/providers/implementations/rands/test_rng.c',
  'openssl/providers/implementations/signature/dsa_sig.c',
  'openssl/providers/implementations/signature/ecdsa_sig.c',
  'openssl/providers/implementations/signature/eddsa_sig.c',
   'openssl/providers/implementations/signature/mac_legacy_sig.c',
  'openssl/providers/implementations/signature/rsa_sig.c',
  'openssl/ssl/s3_cbc.c',
  'openssl/providers/common/der/der_dsa_key.c',
  'openssl/providers/common/der/der_dsa_sig.c',
  'openssl/providers/common/der/der_ec_key.c',
  'openssl/providers/common/der/der_ec_sig.c',
  'openssl/providers/common/der/der_ecx_key.c',
  'openssl/providers/common/der/der_rsa_key.c',
  'openssl/providers/common/provider_ctx.c',
  'openssl/providers/common/provider_err.c',
  'openssl/providers/implementations/ciphers/ciphercommon.c',
  'openssl/providers/implementations/ciphers/ciphercommon_block.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
  'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
   'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
  'openssl/providers/implementations/digests/digestcommon.c',
  'openssl/ssl/record/tls_pad.c',
  'openssl/providers/fips/fips_entry.c',

],
'openssl_sources_BSD-x86': [
  './config/archs/BSD-x86/asm_avx2/crypto/aes/aes-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/aes/aesni-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/aes/vpaes-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bf/bf-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/bn-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/co-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/x86-gf2m.S',
  './config/archs/BSD-x86/asm_avx2/crypto/bn/x86-mont.S',
  './config/archs/BSD-x86/asm_avx2/crypto/camellia/cmll-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/chacha/chacha-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/des/crypt586.S',
```

```
  './config/archs/BSD-x86/asm_avx2/crypto/des/des-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/ec/ecp_nistz256-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/x86cpuid.S',
  './config/archs/BSD-x86/asm_avx2/crypto/md5/md5-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/modes/ghash-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/poly1305/poly1305-x86.S',
  './config/archs/BSD-x86/asm_avx2/crypto/rc4/rc4-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/ripemd/rmd-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha1-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha256-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/sha/sha512-586.S',
  './config/archs/BSD-x86/asm_avx2/crypto/whrlpool/wp-mmx.S',
  './config/archs/BSD-x86/asm_avx2/engines/e_padlock-x86.S',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86/asm_avx2/providers/legacy.ld',
  './config/archs/BSD-x86/asm_avx2/providers/fips.ld',

],
'openssl_defines_BSD-x86': [
  'NDEBUG',
  'L_ENDIAN',
  'OPENSSL_BUILDING_OPENSSL',
  'AES_ASM',
  'DES_ASM',
  'ECP_NISTZ256_ASM',
  'FIPS_MODULE',
  'GHASH_ASM',
  'OPENSSL_BN_ASM_GF2m',
  'OPENSSL_BN_ASM_MONT',
  'OPENSSL_BN_ASM_PART_WORDS',
  'OPENSSL_CPUID_OBJ',
  'OPENSSL_IA32_SSE2',
  'SHA1_ASM',
  'SHA256_ASM',
  'SHA512_ASM',
  'VPAES_ASM',
  'FIPS_MODULE',
],
'openssl_cflags_BSD-x86': [
  '-Wa,--noexecstack',
  '-Wall -O3 -fomit-frame-pointer',
  '-pthread',
```

```
    '-Wall -O3 -fomit-frame-pointer',
  ],
  'openssl_ex_libs_BSD-x86': [
    '-pthread',
  ],
  'linker_script': ''
 },
 'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
 ],
 'defines': ['<@(openssl_defines_BSD-x86)'],
 'cflags': ['<@(openssl_cflags_BSD-x86)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86)'],

 'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86)'],
 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86)'],
 },
}
```

(MIT)

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*/

#ifndef UV_BSD_H
#define UV_BSD_H

#define UV_PLATFORM_FS_EVENT_FIELDS                                   \
 uv__io_t event_watcher;                                              \

#define UV_IO_PRIVATE_PLATFORM_FIELDS                                 \
 int rcount;                                                          \
 int wcount;                                                          \

#define UV_HAVE_KQUEUE 1

#endif /* UV_BSD_H */
```

This license applies to all parts of V8 that are not externally
maintained libraries. The externally maintained libraries used by V8
are:

- PCRE test suite, located in
  test/mjsunit/third_party/regexp-pcre/regexp-pcre.js. This is based on the
  test suite from PCRE-7.3, which is copyrighted by the University
  of Cambridge and Google, Inc. The copyright notice and license
  are embedded in regexp-pcre.js.

- Layout tests, located in test/mjsunit/third_party/object-keys. These are
  based on layout tests from webkit.org which are copyrighted by
  Apple Computer, Inc. and released under a 3-clause BSD license.

- Strongtalk assembler, the basis of the files assembler-arm-inl.h,

assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h,
assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h,
assembler-x64.cc, assembler-x64.h, assembler.cc and assembler.h.
This code is copyrighted by Sun Microsystems Inc. and released
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- Valgrind client API header, located at src/third_party/valgrind/valgrind.h
This is released under the BSD license.

- The Wasm C/C++ API headers, located at third_party/wasm-api/wasm.{h,hh}
This is released under the Apache license. The API's upstream prototype
implementation also formed the basis of V8's implementation in
src/wasm/c-api.cc.

These libraries have their own licenses; we recommend you read them,
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```
#ifndef SRC_PERMISSION_WASI_PERMISSION_H_
#define SRC_PERMISSION_WASI_PERMISSION_H_

#if defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS

#include <vector>
#include "permission/permission_base.h"

namespace node {

namespace permission {

class WASIPermission final : public PermissionBase {
public:
 void Apply(Environment* env,
            const std::vector<std::string>& allow,
            PermissionScope scope) override;
 bool is_granted(Environment* env,
                 PermissionScope perm,
                 const std::string_view& param = "") const override;

private:
 bool deny_all_;
};

}  // namespace permission

}  // namespace node

#endif  // defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS
#endif  // SRC_PERMISSION_WASI_PERMISSION_H_
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{
 'variables': {
   'openssl_defines_BSD-x86_64': [
     'NDEBUG',
     'L_ENDIAN',
     'OPENSSL_BUILDING_OPENSSL',
     'OPENSSL_PIC',
   ],
   'openssl_cflags_BSD-x86_64': [
     '-Wall -O3',
     '-pthread',
     '-Wall -O3',
   ],
   'openssl_ex_libs_BSD-x86_64': [
     '-pthread',
   ],
   'openssl_cli_srcs_BSD-x86_64': [
     'openssl/apps/lib/cmp_mock_srv.c',
     'openssl/apps/asn1parse.c',
     'openssl/apps/ca.c',
     'openssl/apps/ciphers.c',
     'openssl/apps/cmp.c',
     'openssl/apps/cms.c',
     'openssl/apps/crl.c',
     'openssl/apps/crl2pkcs7.c',
     'openssl/apps/dgst.c',
     'openssl/apps/dhparam.c',
     'openssl/apps/dsa.c',
     'openssl/apps/dsaparam.c',
     'openssl/apps/ec.c',
     'openssl/apps/ecparam.c',
     'openssl/apps/enc.c',
     'openssl/apps/engine.c',
     'openssl/apps/errstr.c',
     'openssl/apps/fipsinstall.c',
     'openssl/apps/gendsa.c',
     'openssl/apps/genpkey.c',
```

'openssl/apps/genrsa.c',
'openssl/apps/info.c',
'openssl/apps/kdf.c',
'openssl/apps/list.c',
'openssl/apps/mac.c',
'openssl/apps/nseq.c',
'openssl/apps/ocsp.c',
'openssl/apps/openssl.c',
'openssl/apps/passwd.c',
'openssl/apps/pkcs12.c',
'openssl/apps/pkcs7.c',
'openssl/apps/pkcs8.c',
'openssl/apps/pkey.c',
'openssl/apps/pkeyparam.c',
'openssl/apps/pkeyutl.c',
'openssl/apps/prime.c',
'./config/archs/BSD-x86_64/no-asm/apps/progs.c',
'openssl/apps/rand.c',
'openssl/apps/rehash.c',
'openssl/apps/req.c',
'openssl/apps/rsa.c',
'openssl/apps/rsautl.c',
'openssl/apps/s_client.c',
'openssl/apps/s_server.c',
'openssl/apps/s_time.c',
'openssl/apps/sess_id.c',
'openssl/apps/smime.c',
'openssl/apps/speed.c',
'openssl/apps/spkac.c',
'openssl/apps/srp.c',
'openssl/apps/storeutl.c',
'openssl/apps/ts.c',
'openssl/apps/verify.c',
'openssl/apps/version.c',
'openssl/apps/x509.c',
'openssl/apps/lib/app_libctx.c',
'openssl/apps/lib/app_params.c',
'openssl/apps/lib/app_provider.c',
'openssl/apps/lib/app_rand.c',
'openssl/apps/lib/app_x509.c',
'openssl/apps/lib/apps.c',
'openssl/apps/lib/apps_ui.c',
'openssl/apps/lib/columns.c',
'openssl/apps/lib/engine.c',
'openssl/apps/lib/engine_loader.c',
'openssl/apps/lib/fmt.c',
'openssl/apps/lib/http_server.c',
'openssl/apps/lib/names.c',

```
    'openssl/apps/lib/opt.c',
    'openssl/apps/lib/s_cb.c',
    'openssl/apps/lib/s_socket.c',
    'openssl/apps/lib/tlssrp_depr.c',
  ],
 },
 'defines': ['<@(openssl_defines_BSD-x86_64)'],
 'include_dirs': [
  './include',
 ],
 'cflags' : ['<@(openssl_cflags_BSD-x86_64)'],
 'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],
 'sources': ['<@(openssl_cli_srcs_BSD-x86_64)'],
}
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/cms.h.in
*
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* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_CMS_H
# define OPENSSL_CMS_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_CMS_H
# endif

# include <openssl/opensslconf.h>

# ifndef OPENSSL_NO_CMS
# include <openssl/x509.h>
# include <openssl/x509v3.h>
# include <openssl/cmserr.h>
# ifdef __cplusplus
extern "C" {
# endif

typedef struct CMS_ContentInfo_st CMS_ContentInfo;
```

```
typedef struct CMS_SignerInfo_st CMS_SignerInfo;
typedef struct CMS_CertificateChoices CMS_CertificateChoices;
typedef struct CMS_RevocationInfoChoice_st CMS_RevocationInfoChoice;
typedef
 struct CMS_RecipientInfo_st CMS_RecipientInfo;
typedef struct CMS_ReceiptRequest_st CMS_ReceiptRequest;
typedef struct CMS_Receipt_st CMS_Receipt;
typedef struct CMS_RecipientEncryptedKey_st CMS_RecipientEncryptedKey;
typedef struct CMS_OtherKeyAttribute_st CMS_OtherKeyAttribute;

SKM_DEFINE_STACK_OF_INTERNAL(CMS_SignerInfo, CMS_SignerInfo, CMS_SignerInfo)
#define sk_CMS_SignerInfo_num(sk) OPENSSL_sk_num(ossl_check_const_CMS_SignerInfo_sk_type(sk))
#define sk_CMS_SignerInfo_value(sk, idx) ((CMS_SignerInfo
*)OPENSSL_sk_value(ossl_check_const_CMS_SignerInfo_sk_type(sk), (idx)))
#define sk_CMS_SignerInfo_new(cmp) ((STACK_OF(CMS_SignerInfo)
*)OPENSSL_sk_new(ossl_check_CMS_SignerInfo_compfunc_type(cmp)))
#define sk_CMS_SignerInfo_new_null() ((STACK_OF(CMS_SignerInfo) *)OPENSSL_sk_new_null())
#define sk_CMS_SignerInfo_new_reserve(cmp, n) ((STACK_OF(CMS_SignerInfo)
*)OPENSSL_sk_new_reserve(ossl_check_CMS_SignerInfo_compfunc_type(cmp), (n)))
#define sk_CMS_SignerInfo_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_CMS_SignerInfo_sk_type(sk),
 (n))
#define sk_CMS_SignerInfo_free(sk) OPENSSL_sk_free(ossl_check_CMS_SignerInfo_sk_type(sk))
#define sk_CMS_SignerInfo_zero(sk) OPENSSL_sk_zero(ossl_check_CMS_SignerInfo_sk_type(sk))
#define sk_CMS_SignerInfo_delete(sk, i) ((CMS_SignerInfo
*)OPENSSL_sk_delete(ossl_check_CMS_SignerInfo_sk_type(sk), (i)))
#define sk_CMS_SignerInfo_delete_ptr(sk, ptr) ((CMS_SignerInfo
*)OPENSSL_sk_delete_ptr(ossl_check_CMS_SignerInfo_sk_type(sk), ossl_check_CMS_SignerInfo_type(ptr)))
#define sk_CMS_SignerInfo_push(sk, ptr) OPENSSL_sk_push(ossl_check_CMS_SignerInfo_sk_type(sk),
ossl_check_CMS_SignerInfo_type(ptr))
#define sk_CMS_SignerInfo_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_CMS_SignerInfo_sk_type(sk),
ossl_check_CMS_SignerInfo_type(ptr))
#define sk_CMS_SignerInfo_pop(sk) ((CMS_SignerInfo
*)OPENSSL_sk_pop(ossl_check_CMS_SignerInfo_sk_type(sk)))
#define sk_CMS_SignerInfo_shift(sk) ((CMS_SignerInfo
*)OPENSSL_sk_shift(ossl_check_CMS_SignerInfo_sk_type(sk)))
#define
 sk_CMS_SignerInfo_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_CMS_SignerInfo_sk_type(sk),ossl_check_CMS_SignerInfo_freefunc_type(fre
efunc))
#define sk_CMS_SignerInfo_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_CMS_SignerInfo_sk_type(sk),
ossl_check_CMS_SignerInfo_type(ptr), (idx))
#define sk_CMS_SignerInfo_set(sk, idx, ptr) ((CMS_SignerInfo
*)OPENSSL_sk_set(ossl_check_CMS_SignerInfo_sk_type(sk), (idx), ossl_check_CMS_SignerInfo_type(ptr)))
#define sk_CMS_SignerInfo_find(sk, ptr) OPENSSL_sk_find(ossl_check_CMS_SignerInfo_sk_type(sk),
ossl_check_CMS_SignerInfo_type(ptr))
#define sk_CMS_SignerInfo_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_CMS_SignerInfo_sk_type(sk),
ossl_check_CMS_SignerInfo_type(ptr))
#define sk_CMS_SignerInfo_find_all(sk, ptr, pnum)
```

```
OPENSSL_sk_find_all(ossl_check_CMS_SignerInfo_sk_type(sk), ossl_check_CMS_SignerInfo_type(ptr), pnum)
#define sk_CMS_SignerInfo_sort(sk) OPENSSL_sk_sort(ossl_check_CMS_SignerInfo_sk_type(sk))
#define sk_CMS_SignerInfo_is_sorted(sk)
 OPENSSL_sk_is_sorted(ossl_check_const_CMS_SignerInfo_sk_type(sk))
#define sk_CMS_SignerInfo_dup(sk) ((STACK_OF(CMS_SignerInfo)
*)OPENSSL_sk_dup(ossl_check_const_CMS_SignerInfo_sk_type(sk)))
#define sk_CMS_SignerInfo_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(CMS_SignerInfo)
*)OPENSSL_sk_deep_copy(ossl_check_const_CMS_SignerInfo_sk_type(sk),
ossl_check_CMS_SignerInfo_copyfunc_type(copyfunc), ossl_check_CMS_SignerInfo_freefunc_type(freefunc)))
#define sk_CMS_SignerInfo_set_cmp_func(sk, cmp)
((sk_CMS_SignerInfo_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_CMS_SignerInfo_sk_type(sk),
ossl_check_CMS_SignerInfo_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(CMS_RecipientEncryptedKey, CMS_RecipientEncryptedKey,
CMS_RecipientEncryptedKey)
#define sk_CMS_RecipientEncryptedKey_num(sk)
OPENSSL_sk_num(ossl_check_const_CMS_RecipientEncryptedKey_sk_type(sk))
#define sk_CMS_RecipientEncryptedKey_value(sk, idx) ((CMS_RecipientEncryptedKey
*)OPENSSL_sk_value(ossl_check_const_CMS_RecipientEncryptedKey_sk_type(sk),
 (idx)))
#define sk_CMS_RecipientEncryptedKey_new(cmp) ((STACK_OF(CMS_RecipientEncryptedKey)
*)OPENSSL_sk_new(ossl_check_CMS_RecipientEncryptedKey_compfunc_type(cmp)))
#define sk_CMS_RecipientEncryptedKey_new_null() ((STACK_OF(CMS_RecipientEncryptedKey)
*)OPENSSL_sk_new_null())
#define sk_CMS_RecipientEncryptedKey_new_reserve(cmp, n) ((STACK_OF(CMS_RecipientEncryptedKey)
*)OPENSSL_sk_new_reserve(ossl_check_CMS_RecipientEncryptedKey_compfunc_type(cmp), (n)))
#define sk_CMS_RecipientEncryptedKey_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk), (n))
#define sk_CMS_RecipientEncryptedKey_free(sk)
OPENSSL_sk_free(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk))
#define sk_CMS_RecipientEncryptedKey_zero(sk)
OPENSSL_sk_zero(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk))
#define sk_CMS_RecipientEncryptedKey_delete(sk, i) ((CMS_RecipientEncryptedKey
*)OPENSSL_sk_delete(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),
 (i)))
#define sk_CMS_RecipientEncryptedKey_delete_ptr(sk, ptr) ((CMS_RecipientEncryptedKey
*)OPENSSL_sk_delete_ptr(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),
ossl_check_CMS_RecipientEncryptedKey_type(ptr)))
#define sk_CMS_RecipientEncryptedKey_push(sk, ptr)
OPENSSL_sk_push(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),
ossl_check_CMS_RecipientEncryptedKey_type(ptr))
#define sk_CMS_RecipientEncryptedKey_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),
ossl_check_CMS_RecipientEncryptedKey_type(ptr))
#define sk_CMS_RecipientEncryptedKey_pop(sk) ((CMS_RecipientEncryptedKey
*)OPENSSL_sk_pop(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk)))
#define sk_CMS_RecipientEncryptedKey_shift(sk) ((CMS_RecipientEncryptedKey
*)OPENSSL_sk_shift(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk)))
#define sk_CMS_RecipientEncryptedKey_pop_free(sk, freefunc)
```

```
OPENSSL_sk_pop_free(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),ossl_check_CMS_RecipientEncry
ptedKey_freefunc_type(freefunc))
#define
 sk_CMS_RecipientEncryptedKey_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),
ossl_check_CMS_RecipientEncryptedKey_type(ptr), (idx))
#define sk_CMS_RecipientEncryptedKey_set(sk, idx, ptr) ((CMS_RecipientEncryptedKey
*)OPENSSL_sk_set(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk), (idx),
ossl_check_CMS_RecipientEncryptedKey_type(ptr)))
#define sk_CMS_RecipientEncryptedKey_find(sk, ptr)
OPENSSL_sk_find(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),
ossl_check_CMS_RecipientEncryptedKey_type(ptr))
#define sk_CMS_RecipientEncryptedKey_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),
ossl_check_CMS_RecipientEncryptedKey_type(ptr))
#define sk_CMS_RecipientEncryptedKey_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk),
ossl_check_CMS_RecipientEncryptedKey_type(ptr), pnum)
#define sk_CMS_RecipientEncryptedKey_sort(sk)
OPENSSL_sk_sort(ossl_check_CMS_RecipientEncryptedKey_sk_type(sk))
#define
 sk_CMS_RecipientEncryptedKey_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_CMS_RecipientEncryptedKey_sk_type(sk))
#define sk_CMS_RecipientEncryptedKey_dup(sk) ((STACK_OF(CMS_RecipientEncryptedKey)
*)OPENSSL_sk_dup(ossl_check_const_CMS_RecipientEncryptedKey_sk_type(sk)))
#define sk_CMS_RecipientEncryptedKey_deep_copy(sk, copyfunc, freefunc)
((STACK_OF(CMS_RecipientEncryptedKey)
*)OPENSSL_sk_deep_copy(ossl_check_const_CMS_RecipientEncryptedKey_sk_type(sk),
ossl_check_CMS_RecipientEncryptedKey_copyfunc_type(copyfunc),
ossl_check_CMS_RecipientEncryptedKey_freefunc_type(freefunc)))
#define sk_CMS_RecipientEncryptedKey_set_cmp_func(sk, cmp)
((sk_CMS_RecipientEncryptedKey_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_CMS_RecipientEncrypted
Key_sk_type(sk), ossl_check_CMS_RecipientEncryptedKey_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(CMS_RecipientInfo, CMS_RecipientInfo, CMS_RecipientInfo)
#define sk_CMS_RecipientInfo_num(sk)
 OPENSSL_sk_num(ossl_check_const_CMS_RecipientInfo_sk_type(sk))
#define sk_CMS_RecipientInfo_value(sk, idx) ((CMS_RecipientInfo
*)OPENSSL_sk_value(ossl_check_const_CMS_RecipientInfo_sk_type(sk), (idx)))
#define sk_CMS_RecipientInfo_new(cmp) ((STACK_OF(CMS_RecipientInfo)
*)OPENSSL_sk_new(ossl_check_CMS_RecipientInfo_compfunc_type(cmp)))
#define sk_CMS_RecipientInfo_new_null() ((STACK_OF(CMS_RecipientInfo) *)OPENSSL_sk_new_null())
#define sk_CMS_RecipientInfo_new_reserve(cmp, n) ((STACK_OF(CMS_RecipientInfo)
*)OPENSSL_sk_new_reserve(ossl_check_CMS_RecipientInfo_compfunc_type(cmp), (n)))
#define sk_CMS_RecipientInfo_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_CMS_RecipientInfo_sk_type(sk),
(n))
#define sk_CMS_RecipientInfo_free(sk) OPENSSL_sk_free(ossl_check_CMS_RecipientInfo_sk_type(sk))
#define sk_CMS_RecipientInfo_zero(sk) OPENSSL_sk_zero(ossl_check_CMS_RecipientInfo_sk_type(sk))
#define sk_CMS_RecipientInfo_delete(sk, i) ((CMS_RecipientInfo
```

```
*)OPENSSL_sk_delete(ossl_check_CMS_RecipientInfo_sk_type(sk),
 (i)))
#define sk_CMS_RecipientInfo_delete_ptr(sk, ptr) ((CMS_RecipientInfo
*)OPENSSL_sk_delete_ptr(ossl_check_CMS_RecipientInfo_sk_type(sk),
ossl_check_CMS_RecipientInfo_type(ptr)))
#define sk_CMS_RecipientInfo_push(sk, ptr) OPENSSL_sk_push(ossl_check_CMS_RecipientInfo_sk_type(sk),
ossl_check_CMS_RecipientInfo_type(ptr))
#define sk_CMS_RecipientInfo_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_CMS_RecipientInfo_sk_type(sk), ossl_check_CMS_RecipientInfo_type(ptr))
#define sk_CMS_RecipientInfo_pop(sk) ((CMS_RecipientInfo
*)OPENSSL_sk_pop(ossl_check_CMS_RecipientInfo_sk_type(sk)))
#define sk_CMS_RecipientInfo_shift(sk) ((CMS_RecipientInfo
*)OPENSSL_sk_shift(ossl_check_CMS_RecipientInfo_sk_type(sk)))
#define sk_CMS_RecipientInfo_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_CMS_RecipientInfo_sk_type(sk),ossl_check_CMS_RecipientInfo_freefunc_ty
pe(freefunc))
#define sk_CMS_RecipientInfo_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_CMS_RecipientInfo_sk_type(sk),
 ossl_check_CMS_RecipientInfo_type(ptr), (idx))
#define sk_CMS_RecipientInfo_set(sk, idx, ptr) ((CMS_RecipientInfo
*)OPENSSL_sk_set(ossl_check_CMS_RecipientInfo_sk_type(sk), (idx),
ossl_check_CMS_RecipientInfo_type(ptr)))
#define sk_CMS_RecipientInfo_find(sk, ptr) OPENSSL_sk_find(ossl_check_CMS_RecipientInfo_sk_type(sk),
ossl_check_CMS_RecipientInfo_type(ptr))
#define sk_CMS_RecipientInfo_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_CMS_RecipientInfo_sk_type(sk), ossl_check_CMS_RecipientInfo_type(ptr))
#define sk_CMS_RecipientInfo_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_CMS_RecipientInfo_sk_type(sk), ossl_check_CMS_RecipientInfo_type(ptr),
pnum)
#define sk_CMS_RecipientInfo_sort(sk) OPENSSL_sk_sort(ossl_check_CMS_RecipientInfo_sk_type(sk))
#define sk_CMS_RecipientInfo_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_CMS_RecipientInfo_sk_type(sk))
#define sk_CMS_RecipientInfo_dup(sk) ((STACK_OF(CMS_RecipientInfo)
*)OPENSSL_sk_dup(ossl_check_const_CMS_RecipientInfo_sk_type(sk)))
#define
 sk_CMS_RecipientInfo_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(CMS_RecipientInfo)
*)OPENSSL_sk_deep_copy(ossl_check_const_CMS_RecipientInfo_sk_type(sk),
ossl_check_CMS_RecipientInfo_copyfunc_type(copyfunc),
ossl_check_CMS_RecipientInfo_freefunc_type(freefunc)))
#define sk_CMS_RecipientInfo_set_cmp_func(sk, cmp)
((sk_CMS_RecipientInfo_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_CMS_RecipientInfo_sk_type(sk),
ossl_check_CMS_RecipientInfo_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(CMS_RevocationInfoChoice, CMS_RevocationInfoChoice,
CMS_RevocationInfoChoice)
#define sk_CMS_RevocationInfoChoice_num(sk)
OPENSSL_sk_num(ossl_check_const_CMS_RevocationInfoChoice_sk_type(sk))
#define sk_CMS_RevocationInfoChoice_value(sk, idx) ((CMS_RevocationInfoChoice
*)OPENSSL_sk_value(ossl_check_const_CMS_RevocationInfoChoice_sk_type(sk), (idx)))
```

```
#define sk_CMS_RevocationInfoChoice_new(cmp) ((STACK_OF(CMS_RevocationInfoChoice)
*)OPENSSL_sk_new(ossl_check_CMS_RevocationInfoChoice_compfunc_type(cmp)))
#define
 sk_CMS_RevocationInfoChoice_new_null() ((STACK_OF(CMS_RevocationInfoChoice)
*)OPENSSL_sk_new_null())
#define sk_CMS_RevocationInfoChoice_new_reserve(cmp, n) ((STACK_OF(CMS_RevocationInfoChoice)
*)OPENSSL_sk_new_reserve(ossl_check_CMS_RevocationInfoChoice_compfunc_type(cmp), (n)))
#define sk_CMS_RevocationInfoChoice_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_CMS_RevocationInfoChoice_sk_type(sk), (n))
#define sk_CMS_RevocationInfoChoice_free(sk)
OPENSSL_sk_free(ossl_check_CMS_RevocationInfoChoice_sk_type(sk))
#define sk_CMS_RevocationInfoChoice_zero(sk)
OPENSSL_sk_zero(ossl_check_CMS_RevocationInfoChoice_sk_type(sk))
#define sk_CMS_RevocationInfoChoice_delete(sk, i) ((CMS_RevocationInfoChoice
*)OPENSSL_sk_delete(ossl_check_CMS_RevocationInfoChoice_sk_type(sk), (i)))
#define sk_CMS_RevocationInfoChoice_delete_ptr(sk, ptr) ((CMS_RevocationInfoChoice
*)OPENSSL_sk_delete_ptr(ossl_check_CMS_RevocationInfoChoice_sk_type(sk),
ossl_check_CMS_RevocationInfoChoice_type(ptr)))
#define
 sk_CMS_RevocationInfoChoice_push(sk, ptr)
OPENSSL_sk_push(ossl_check_CMS_RevocationInfoChoice_sk_type(sk),
ossl_check_CMS_RevocationInfoChoice_type(ptr))
#define sk_CMS_RevocationInfoChoice_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_CMS_RevocationInfoChoice_sk_type(sk),
ossl_check_CMS_RevocationInfoChoice_type(ptr))
#define sk_CMS_RevocationInfoChoice_pop(sk) ((CMS_RevocationInfoChoice
*)OPENSSL_sk_pop(ossl_check_CMS_RevocationInfoChoice_sk_type(sk)))
#define sk_CMS_RevocationInfoChoice_shift(sk) ((CMS_RevocationInfoChoice
*)OPENSSL_sk_shift(ossl_check_CMS_RevocationInfoChoice_sk_type(sk)))
#define sk_CMS_RevocationInfoChoice_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_CMS_RevocationInfoChoice_sk_type(sk),ossl_check_CMS_RevocationInfoC
hoice_freefunc_type(freefunc))
#define sk_CMS_RevocationInfoChoice_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_CMS_RevocationInfoChoice_sk_type(sk),
ossl_check_CMS_RevocationInfoChoice_type(ptr), (idx))
#define
 sk_CMS_RevocationInfoChoice_set(sk, idx, ptr) ((CMS_RevocationInfoChoice
*)OPENSSL_sk_set(ossl_check_CMS_RevocationInfoChoice_sk_type(sk), (idx),
ossl_check_CMS_RevocationInfoChoice_type(ptr)))
#define sk_CMS_RevocationInfoChoice_find(sk, ptr)
OPENSSL_sk_find(ossl_check_CMS_RevocationInfoChoice_sk_type(sk),
ossl_check_CMS_RevocationInfoChoice_type(ptr))
#define sk_CMS_RevocationInfoChoice_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_CMS_RevocationInfoChoice_sk_type(sk),
ossl_check_CMS_RevocationInfoChoice_type(ptr))
#define sk_CMS_RevocationInfoChoice_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_CMS_RevocationInfoChoice_sk_type(sk),
ossl_check_CMS_RevocationInfoChoice_type(ptr), pnum)
```

```
#define sk_CMS_RevocationInfoChoice_sort(sk)
OPENSSL_sk_sort(ossl_check_CMS_RevocationInfoChoice_sk_type(sk))
#define sk_CMS_RevocationInfoChoice_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_CMS_RevocationInfoChoice_sk_type(sk))
#define sk_CMS_RevocationInfoChoice_dup(sk) ((STACK_OF(CMS_RevocationInfoChoice)
 *)OPENSSL_sk_dup(ossl_check_const_CMS_RevocationInfoChoice_sk_type(sk)))
#define sk_CMS_RevocationInfoChoice_deep_copy(sk, copyfunc, freefunc)
((STACK_OF(CMS_RevocationInfoChoice)
*)OPENSSL_sk_deep_copy(ossl_check_const_CMS_RevocationInfoChoice_sk_type(sk),
ossl_check_CMS_RevocationInfoChoice_copyfunc_type(copyfunc),
ossl_check_CMS_RevocationInfoChoice_freefunc_type(freefunc)))
#define sk_CMS_RevocationInfoChoice_set_cmp_func(sk, cmp)
((sk_CMS_RevocationInfoChoice_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_CMS_RevocationInfoChoi
ce_sk_type(sk), ossl_check_CMS_RevocationInfoChoice_compfunc_type(cmp)))


DECLARE_ASN1_FUNCTIONS(CMS_ContentInfo)
DECLARE_ASN1_FUNCTIONS(CMS_ReceiptRequest)
DECLARE_ASN1_PRINT_FUNCTION(CMS_ContentInfo)

CMS_ContentInfo *CMS_ContentInfo_new_ex(OSSL_LIB_CTX *libctx, const char *propq);

# define CMS_SIGNERINFO_ISSUER_SERIAL    0
# define CMS_SIGNERINFO_KEYIDENTIFIER    1

# define CMS_RECIPINFO_NONE             -1
# define CMS_RECIPINFO_TRANS
            0
# define CMS_RECIPINFO_AGREE            1
# define CMS_RECIPINFO_KEK              2
# define CMS_RECIPINFO_PASS             3
# define CMS_RECIPINFO_OTHER            4

/* S/MIME related flags */

# define CMS_TEXT                       0x1
# define CMS_NOCERTS                    0x2
# define CMS_NO_CONTENT_VERIFY          0x4
# define CMS_NO_ATTR_VERIFY             0x8
# define CMS_NOSIGS                     \
                    (CMS_NO_CONTENT_VERIFY|CMS_NO_ATTR_VERIFY)
# define CMS_NOINTERN                   0x10
# define CMS_NO_SIGNER_CERT_VERIFY      0x20
# define CMS_NOVERIFY                   0x20
# define CMS_DETACHED                   0x40
# define CMS_BINARY                     0x80
# define CMS_NOATTR                     0x100
# define CMS_NOSMIMECAP                 0x200
```

```
# define CMS_NOOLDMIMETYPE             0x400
# define CMS_CRLFEOL                   0x800
# define CMS_STREAM                    0x1000
# define CMS_NOCRL
                0x2000
# define CMS_PARTIAL                   0x4000
# define CMS_REUSE_DIGEST              0x8000
# define CMS_USE_KEYID                 0x10000
# define CMS_DEBUG_DECRYPT             0x20000
# define CMS_KEY_PARAM                 0x40000
# define CMS_ASCIICRLF                 0x80000
# define CMS_CADES                     0x100000
# define CMS_USE_ORIGINATOR_KEYID      0x200000

const ASN1_OBJECT *CMS_get0_type(const CMS_ContentInfo *cms);

BIO *CMS_dataInit(CMS_ContentInfo *cms, BIO *icont);
int CMS_dataFinal(CMS_ContentInfo *cms, BIO *bio);

ASN1_OCTET_STRING **CMS_get0_content(CMS_ContentInfo *cms);
int CMS_is_detached(CMS_ContentInfo *cms);
int CMS_set_detached(CMS_ContentInfo *cms, int detached);

# ifdef OPENSSL_PEM_H
DECLARE_PEM_rw(CMS, CMS_ContentInfo)
# endif
int CMS_stream(unsigned char ***boundary, CMS_ContentInfo *cms);
CMS_ContentInfo *d2i_CMS_bio(BIO *bp, CMS_ContentInfo **cms);
int i2d_CMS_bio(BIO *bp, CMS_ContentInfo *cms);

BIO *BIO_new_CMS(BIO
 *out, CMS_ContentInfo *cms);
int i2d_CMS_bio_stream(BIO *out, CMS_ContentInfo *cms, BIO *in, int flags);
int PEM_write_bio_CMS_stream(BIO *out, CMS_ContentInfo *cms, BIO *in,
                     int flags);
CMS_ContentInfo *SMIME_read_CMS(BIO *bio, BIO **bcont);
CMS_ContentInfo *SMIME_read_CMS_ex(BIO *bio, int flags, BIO **bcont, CMS_ContentInfo **ci);
int SMIME_write_CMS(BIO *bio, CMS_ContentInfo *cms, BIO *data, int flags);

int CMS_final(CMS_ContentInfo *cms, BIO *data, BIO *dcont,
          unsigned int flags);

CMS_ContentInfo *CMS_sign(X509 *signcert, EVP_PKEY *pkey,
                    STACK_OF(X509) *certs, BIO *data,
                    unsigned int flags);
CMS_ContentInfo *CMS_sign_ex(X509 *signcert, EVP_PKEY *pkey,
                     STACK_OF(X509) *certs, BIO *data,
                     unsigned int flags, OSSL_LIB_CTX *ctx,
```

```
                    const char *propq);

CMS_ContentInfo *CMS_sign_receipt(CMS_SignerInfo
 *si,
                          X509 *signcert, EVP_PKEY *pkey,
                          STACK_OF(X509) *certs, unsigned int flags);

int CMS_data(CMS_ContentInfo *cms, BIO *out, unsigned int flags);
CMS_ContentInfo *CMS_data_create(BIO *in, unsigned int flags);
CMS_ContentInfo *CMS_data_create_ex(BIO *in, unsigned int flags,
                           OSSL_LIB_CTX *ctx, const char *propq);

int CMS_digest_verify(CMS_ContentInfo *cms, BIO *dcont, BIO *out,
                unsigned int flags);
CMS_ContentInfo *CMS_digest_create(BIO *in, const EVP_MD *md,
                          unsigned int flags);
CMS_ContentInfo *CMS_digest_create_ex(BIO *in, const EVP_MD *md,
                             unsigned int flags, OSSL_LIB_CTX *ctx,
                             const char *propq);

int CMS_EncryptedData_decrypt(CMS_ContentInfo *cms,
                      const unsigned char *key, size_t keylen,

    BIO *dcont, BIO *out, unsigned int flags);

CMS_ContentInfo *CMS_EncryptedData_encrypt(BIO *in, const EVP_CIPHER *cipher,
                                const unsigned char *key,
                                size_t keylen, unsigned int flags);
CMS_ContentInfo *CMS_EncryptedData_encrypt_ex(BIO *in, const EVP_CIPHER *cipher,
                                  const unsigned char *key,
                                  size_t keylen, unsigned int flags,
                                  OSSL_LIB_CTX *ctx,
                                  const char *propq);

int CMS_EncryptedData_set1_key(CMS_ContentInfo *cms, const EVP_CIPHER *ciph,
                     const unsigned char *key, size_t keylen);

int CMS_verify(CMS_ContentInfo *cms, STACK_OF(X509) *certs,
           X509_STORE *store, BIO *dcont, BIO *out, unsigned int flags);

int CMS_verify_receipt(CMS_ContentInfo *rcms, CMS_ContentInfo *ocms,

                 STACK_OF(X509) *certs,
                 X509_STORE *store, unsigned int flags);

STACK_OF(X509) *CMS_get0_signers(CMS_ContentInfo *cms);

CMS_ContentInfo *CMS_encrypt(STACK_OF(X509) *certs, BIO *in,
```

```
                    const EVP_CIPHER *cipher, unsigned int flags);
CMS_ContentInfo *CMS_encrypt_ex(STACK_OF(X509) *certs, BIO *in,
                    const EVP_CIPHER *cipher, unsigned int flags,
                    OSSL_LIB_CTX *ctx, const char *propq);

int CMS_decrypt(CMS_ContentInfo *cms, EVP_PKEY *pkey, X509 *cert,
          BIO *dcont, BIO *out, unsigned int flags);

int CMS_decrypt_set1_pkey(CMS_ContentInfo *cms, EVP_PKEY *pk, X509 *cert);
int CMS_decrypt_set1_pkey_and_peer(CMS_ContentInfo *cms, EVP_PKEY *pk,
                    X509 *cert, X509 *peer);
int CMS_decrypt_set1_key(CMS_ContentInfo *cms,
                  unsigned char *key, size_t keylen,
                  const unsigned char
 *id, size_t idlen);
int CMS_decrypt_set1_password(CMS_ContentInfo *cms,
                    unsigned char *pass, ossl_ssize_t passlen);

STACK_OF(CMS_RecipientInfo) *CMS_get0_RecipientInfos(CMS_ContentInfo *cms);
int CMS_RecipientInfo_type(CMS_RecipientInfo *ri);
EVP_PKEY_CTX *CMS_RecipientInfo_get0_pkey_ctx(CMS_RecipientInfo *ri);
CMS_ContentInfo *CMS_AuthEnvelopedData_create(const EVP_CIPHER *cipher);
CMS_ContentInfo *
CMS_AuthEnvelopedData_create_ex(const EVP_CIPHER *cipher, OSSL_LIB_CTX *ctx,
                    const char *propq);
CMS_ContentInfo *CMS_EnvelopedData_create(const EVP_CIPHER *cipher);
CMS_ContentInfo *CMS_EnvelopedData_create_ex(const EVP_CIPHER *cipher,
                              OSSL_LIB_CTX *ctx,
                              const char *propq);

CMS_RecipientInfo *CMS_add1_recipient_cert(CMS_ContentInfo *cms,
                              X509 *recip, unsigned int flags);
CMS_RecipientInfo *CMS_add1_recipient(CMS_ContentInfo
 *cms, X509 *recip,
   EVP_PKEY *originatorPrivKey, X509 * originator, unsigned int flags);
int CMS_RecipientInfo_set0_pkey(CMS_RecipientInfo *ri, EVP_PKEY *pkey);
int CMS_RecipientInfo_ktri_cert_cmp(CMS_RecipientInfo *ri, X509 *cert);
int CMS_RecipientInfo_ktri_get0_algs(CMS_RecipientInfo *ri,
                            EVP_PKEY **pk, X509 **recip,
                            X509_ALGOR **palg);
int CMS_RecipientInfo_ktri_get0_signer_id(CMS_RecipientInfo *ri,
                              ASN1_OCTET_STRING **keyid,
                              X509_NAME **issuer,
                              ASN1_INTEGER **sno);

CMS_RecipientInfo *CMS_add0_recipient_key(CMS_ContentInfo *cms, int nid,
                              unsigned char *key, size_t keylen,
                              unsigned char *id, size_t idlen,
```

```
                                ASN1_GENERALIZEDTIME *date,
                                 ASN1_OBJECT *otherTypeId,
                                ASN1_TYPE *otherType);

int CMS_RecipientInfo_kekri_get0_id(CMS_RecipientInfo *ri,
                            X509_ALGOR **palg,
                            ASN1_OCTET_STRING **pid,
                            ASN1_GENERALIZEDTIME **pdate,
                            ASN1_OBJECT **potherid,
                            ASN1_TYPE **pothertype);

int CMS_RecipientInfo_set0_key(CMS_RecipientInfo *ri,
                        unsigned char *key, size_t keylen);

int CMS_RecipientInfo_kekri_id_cmp(CMS_RecipientInfo *ri,
                           const unsigned char *id, size_t idlen);

int CMS_RecipientInfo_set0_password(CMS_RecipientInfo *ri,
                            unsigned char *pass,
                            ossl_ssize_t passlen);

CMS_RecipientInfo *CMS_add0_recipient_password(CMS_ContentInfo *cms,
                                     int iter, int wrap_nid,
                                    int pbe_nid,
                                    unsigned char *pass,
                                    ossl_ssize_t passlen,
                                    const EVP_CIPHER *kekciph);

int CMS_RecipientInfo_decrypt(CMS_ContentInfo *cms, CMS_RecipientInfo *ri);
int CMS_RecipientInfo_encrypt(const CMS_ContentInfo *cms, CMS_RecipientInfo *ri);

int CMS_uncompress(CMS_ContentInfo *cms, BIO *dcont, BIO *out,
              unsigned int flags);
CMS_ContentInfo *CMS_compress(BIO *in, int comp_nid, unsigned int flags);

int CMS_set1_eContentType(CMS_ContentInfo *cms, const ASN1_OBJECT *oid);
const ASN1_OBJECT *CMS_get0_eContentType(CMS_ContentInfo *cms);

CMS_CertificateChoices *CMS_add0_CertificateChoices(CMS_ContentInfo *cms);
int CMS_add0_cert(CMS_ContentInfo *cms, X509 *cert);
int CMS_add1_cert(CMS_ContentInfo *cms, X509 *cert);
STACK_OF(X509)
 *CMS_get1_certs(CMS_ContentInfo *cms);

CMS_RevocationInfoChoice *CMS_add0_RevocationInfoChoice(CMS_ContentInfo *cms);
int CMS_add0_crl(CMS_ContentInfo *cms, X509_CRL *crl);
int CMS_add1_crl(CMS_ContentInfo *cms, X509_CRL *crl);
STACK_OF(X509_CRL) *CMS_get1_crls(CMS_ContentInfo *cms);
```

```
int CMS_SignedData_init(CMS_ContentInfo *cms);
CMS_SignerInfo *CMS_add1_signer(CMS_ContentInfo *cms,
                        X509 *signer, EVP_PKEY *pk, const EVP_MD *md,
                        unsigned int flags);
EVP_PKEY_CTX *CMS_SignerInfo_get0_pkey_ctx(CMS_SignerInfo *si);
EVP_MD_CTX *CMS_SignerInfo_get0_md_ctx(CMS_SignerInfo *si);
STACK_OF(CMS_SignerInfo) *CMS_get0_SignerInfos(CMS_ContentInfo *cms);

void CMS_SignerInfo_set1_signer_cert(CMS_SignerInfo *si, X509 *signer);
int CMS_SignerInfo_get0_signer_id(CMS_SignerInfo *si,
                          ASN1_OCTET_STRING **keyid,
                          X509_NAME **issuer, ASN1_INTEGER **sno);
int CMS_SignerInfo_cert_cmp(CMS_SignerInfo
 *si, X509 *cert);
int CMS_set1_signers_certs(CMS_ContentInfo *cms, STACK_OF(X509) *certs,
                     unsigned int flags);
void CMS_SignerInfo_get0_algs(CMS_SignerInfo *si, EVP_PKEY **pk,
                       X509 **signer, X509_ALGOR **pdig,
                       X509_ALGOR **psig);
ASN1_OCTET_STRING *CMS_SignerInfo_get0_signature(CMS_SignerInfo *si);
int CMS_SignerInfo_sign(CMS_SignerInfo *si);
int CMS_SignerInfo_verify(CMS_SignerInfo *si);
int CMS_SignerInfo_verify_content(CMS_SignerInfo *si, BIO *chain);

int CMS_add_smimecap(CMS_SignerInfo *si, STACK_OF(X509_ALGOR) *algs);
int CMS_add_simple_smimecap(STACK_OF(X509_ALGOR) **algs,
                      int algnid, int keysize);
int CMS_add_standard_smimecap(STACK_OF(X509_ALGOR) **smcap);

int CMS_signed_get_attr_count(const CMS_SignerInfo *si);
int CMS_signed_get_attr_by_NID(const CMS_SignerInfo *si, int nid,
                       int lastpos);
int CMS_signed_get_attr_by_OBJ(const
 CMS_SignerInfo *si, const ASN1_OBJECT *obj,
                       int lastpos);
X509_ATTRIBUTE *CMS_signed_get_attr(const CMS_SignerInfo *si, int loc);
X509_ATTRIBUTE *CMS_signed_delete_attr(CMS_SignerInfo *si, int loc);
int CMS_signed_add1_attr(CMS_SignerInfo *si, X509_ATTRIBUTE *attr);
int CMS_signed_add1_attr_by_OBJ(CMS_SignerInfo *si,
                        const ASN1_OBJECT *obj, int type,
                        const void *bytes, int len);
int CMS_signed_add1_attr_by_NID(CMS_SignerInfo *si,
                        int nid, int type,
                        const void *bytes, int len);
int CMS_signed_add1_attr_by_txt(CMS_SignerInfo *si,
                        const char *attrname, int type,
                        const void *bytes, int len);
```

```
void *CMS_signed_get0_data_by_OBJ(const CMS_SignerInfo *si,
                                  const ASN1_OBJECT *oid,

   int lastpos, int type);

int CMS_unsigned_get_attr_count(const CMS_SignerInfo *si);
int CMS_unsigned_get_attr_by_NID(const CMS_SignerInfo *si, int nid,
                                 int lastpos);
int CMS_unsigned_get_attr_by_OBJ(const CMS_SignerInfo *si,
                                 const ASN1_OBJECT *obj, int lastpos);
X509_ATTRIBUTE *CMS_unsigned_get_attr(const CMS_SignerInfo *si, int loc);
X509_ATTRIBUTE *CMS_unsigned_delete_attr(CMS_SignerInfo *si, int loc);
int CMS_unsigned_add1_attr(CMS_SignerInfo *si, X509_ATTRIBUTE *attr);
int CMS_unsigned_add1_attr_by_OBJ(CMS_SignerInfo *si,
                                  const ASN1_OBJECT *obj, int type,
                                  const void *bytes, int len);
int CMS_unsigned_add1_attr_by_NID(CMS_SignerInfo *si,
                                  int nid, int type,
                                  const void *bytes, int len);
int CMS_unsigned_add1_attr_by_txt(CMS_SignerInfo *si,
                                  const char
 *attrname, int type,
                                  const void *bytes, int len);
void *CMS_unsigned_get0_data_by_OBJ(CMS_SignerInfo *si, ASN1_OBJECT *oid,
                                    int lastpos, int type);

int CMS_get1_ReceiptRequest(CMS_SignerInfo *si, CMS_ReceiptRequest **prr);
CMS_ReceiptRequest *CMS_ReceiptRequest_create0(
   unsigned char *id, int idlen, int allorfirst,
   STACK_OF(GENERAL_NAMES) *receiptList,
   STACK_OF(GENERAL_NAMES) *receiptsTo);
CMS_ReceiptRequest *CMS_ReceiptRequest_create0_ex(
   unsigned char *id, int idlen, int allorfirst,
   STACK_OF(GENERAL_NAMES) *receiptList,
   STACK_OF(GENERAL_NAMES) *receiptsTo,
   OSSL_LIB_CTX *ctx);

int CMS_add1_ReceiptRequest(CMS_SignerInfo *si, CMS_ReceiptRequest *rr);
void CMS_ReceiptRequest_get0_values(CMS_ReceiptRequest *rr,
                                    ASN1_STRING **pcid,
                                    int *pallorfirst,
                                    STACK_OF(GENERAL_NAMES) **plist,

                                   STACK_OF(GENERAL_NAMES) **prto);
int CMS_RecipientInfo_kari_get0_alg(CMS_RecipientInfo *ri,
                                    X509_ALGOR **palg,
                                    ASN1_OCTET_STRING **pukm);
STACK_OF(CMS_RecipientEncryptedKey)
```

```
*CMS_RecipientInfo_kari_get0_reks(CMS_RecipientInfo *ri);

int CMS_RecipientInfo_kari_get0_orig_id(CMS_RecipientInfo *ri,
                                        X509_ALGOR **pubalg,
                                        ASN1_BIT_STRING **pubkey,
                                        ASN1_OCTET_STRING **keyid,
                                        X509_NAME **issuer,
                                        ASN1_INTEGER **sno);

int CMS_RecipientInfo_kari_orig_id_cmp(CMS_RecipientInfo *ri, X509 *cert);

int CMS_RecipientEncryptedKey_get0_id(CMS_RecipientEncryptedKey *rek,
                                      ASN1_OCTET_STRING **keyid,
                                      ASN1_GENERALIZEDTIME **tm,

                                    CMS_OtherKeyAttribute **other,
                                      X509_NAME **issuer, ASN1_INTEGER **sno);
int CMS_RecipientEncryptedKey_cert_cmp(CMS_RecipientEncryptedKey *rek,
                                       X509 *cert);
int CMS_RecipientInfo_kari_set0_pkey(CMS_RecipientInfo *ri, EVP_PKEY *pk);
int CMS_RecipientInfo_kari_set0_pkey_and_peer(CMS_RecipientInfo *ri, EVP_PKEY *pk, X509 *peer);
EVP_CIPHER_CTX *CMS_RecipientInfo_kari_get0_ctx(CMS_RecipientInfo *ri);
int CMS_RecipientInfo_kari_decrypt(CMS_ContentInfo *cms,
                                   CMS_RecipientInfo *ri,
                                   CMS_RecipientEncryptedKey *rek);

int CMS_SharedInfo_encode(unsigned char **pder, X509_ALGOR *kekalg,
                          ASN1_OCTET_STRING *ukm, int keylen);

/* Backward compatibility for spelling errors. */
# define CMS_R_UNKNOWN_DIGEST_ALGORITM CMS_R_UNKNOWN_DIGEST_ALGORITHM
# define CMS_R_UNSUPPORTED_RECPIENTINFO_TYPE \
   CMS_R_UNSUPPORTED_RECIPIENTINFO_TYPE

#
  ifdef  __cplusplus
}
#  endif
# endif
#endif
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/asn1.h.in
*
* Copyright 1995-2021 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the Apache License 2.0 (the "License").  You may not use
* this file except in compliance with the License.  You can obtain a copy
```

```
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_ASN1_H
# define OPENSSL_ASN1_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_ASN1_H
# endif

# include <time.h>
# include <openssl/e_os2.h>
# include <openssl/opensslconf.h>
# include <openssl/bio.h>
# include <openssl/safestack.h>
# include <openssl/asn1err.h>
# include <openssl/symhacks.h>

# include <openssl/types.h>
# include <openssl/bn.h>

# ifdef OPENSSL_BUILD_SHLIBCRYPTO
#  undef OPENSSL_EXTERN
#  define OPENSSL_EXTERN OPENSSL_EXPORT
# endif

#ifdef  __cplusplus
extern "C" {
#endif

# define V_ASN1_UNIVERSAL
              0x00
# define V_ASN1_APPLICATION             0x40
# define V_ASN1_CONTEXT_SPECIFIC        0x80
# define V_ASN1_PRIVATE                 0xc0

# define V_ASN1_CONSTRUCTED             0x20
# define V_ASN1_PRIMITIVE_TAG           0x1f
# define V_ASN1_PRIMATIVE_TAG /*compat*/ V_ASN1_PRIMITIVE_TAG

# define V_ASN1_APP_CHOOSE              -2/* let the recipient choose */
# define V_ASN1_OTHER                   -3/* used in ASN1_TYPE */
# define V_ASN1_ANY                     -4/* used in ASN1 template code */
```

```
# define V_ASN1_UNDEF                    -1
/* ASN.1 tag values */
# define V_ASN1_EOC                    0
# define V_ASN1_BOOLEAN                1 /**/
# define V_ASN1_INTEGER                2
# define V_ASN1_BIT_STRING             3
# define V_ASN1_OCTET_STRING           4
# define V_ASN1_NULL                   5
# define V_ASN1_OBJECT                 6
# define V_ASN1_OBJECT_DESCRIPTOR      7
# define V_ASN1_EXTERNAL               8
#
 define V_ASN1_REAL                   9
# define V_ASN1_ENUMERATED             10
# define V_ASN1_UTF8STRING             12
# define V_ASN1_SEQUENCE               16
# define V_ASN1_SET                    17
# define V_ASN1_NUMERICSTRING          18 /**/
# define V_ASN1_PRINTABLESTRING        19
# define V_ASN1_T61STRING              20
# define V_ASN1_TELETEXSTRING          20/* alias */
# define V_ASN1_VIDEOTEXSTRING         21 /**/
# define V_ASN1_IA5STRING              22
# define V_ASN1_UTCTIME                23
# define V_ASN1_GENERALIZEDTIME        24 /**/
# define V_ASN1_GRAPHICSTRING          25 /**/
# define V_ASN1_ISO64STRING            26 /**/
# define V_ASN1_VISIBLESTRING          26/* alias */
# define V_ASN1_GENERALSTRING          27 /**/
# define V_ASN1_UNIVERSALSTRING        28 /**/
# define V_ASN1_BMPSTRING              30

/*
* NB the constants below are used internally by ASN1_INTEGER
* and ASN1_ENUMERATED to indicate the sign.
 They are *not* on
* the wire tag values.
*/

# define V_ASN1_NEG                    0x100
# define V_ASN1_NEG_INTEGER            (2 | V_ASN1_NEG)
# define V_ASN1_NEG_ENUMERATED         (10 | V_ASN1_NEG)

/* For use with d2i_ASN1_type_bytes() */
# define B_ASN1_NUMERICSTRING    0x0001
# define B_ASN1_PRINTABLESTRING  0x0002
# define B_ASN1_T61STRING        0x0004
```

```
# define B_ASN1_TELETEXSTRING    0x0004
# define B_ASN1_VIDEOTEXSTRING   0x0008
# define B_ASN1_IA5STRING        0x0010
# define B_ASN1_GRAPHICSTRING    0x0020
# define B_ASN1_ISO64STRING      0x0040
# define B_ASN1_VISIBLESTRING    0x0040
# define B_ASN1_GENERALSTRING    0x0080
# define B_ASN1_UNIVERSALSTRING  0x0100
# define B_ASN1_OCTET_STRING     0x0200
# define B_ASN1_BIT_STRING       0x0400
# define B_ASN1_BMPSTRING        0x0800
# define B_ASN1_UNKNOWN          0x1000
# define B_ASN1_UTF8STRING       0x2000
# define B_ASN1_UTCTIME          0x4000
# define B_ASN1_GENERALIZEDTIME  0x8000
# define B_ASN1_SEQUENCE
        0x10000
/* For use with ASN1_mbstring_copy() */
# define MBSTRING_FLAG           0x1000
# define MBSTRING_UTF8           (MBSTRING_FLAG)
# define MBSTRING_ASC            (MBSTRING_FLAG|1)
# define MBSTRING_BMP            (MBSTRING_FLAG|2)
# define MBSTRING_UNIV           (MBSTRING_FLAG|4)
# define SMIME_OLDMIME           0x400
# define SMIME_CRLFEOL           0x800
# define SMIME_STREAM            0x1000

/* Stacks for types not otherwise defined in this header */
SKM_DEFINE_STACK_OF_INTERNAL(X509_ALGOR, X509_ALGOR, X509_ALGOR)
#define sk_X509_ALGOR_num(sk) OPENSSL_sk_num(ossl_check_const_X509_ALGOR_sk_type(sk))
#define sk_X509_ALGOR_value(sk, idx) ((X509_ALGOR
*)OPENSSL_sk_value(ossl_check_const_X509_ALGOR_sk_type(sk), (idx)))
#define sk_X509_ALGOR_new(cmp) ((STACK_OF(X509_ALGOR)
*)OPENSSL_sk_new(ossl_check_X509_ALGOR_compfunc_type(cmp)))
#define sk_X509_ALGOR_new_null() ((STACK_OF(X509_ALGOR) *)OPENSSL_sk_new_null())
#define sk_X509_ALGOR_new_reserve(cmp, n) ((STACK_OF(X509_ALGOR)
 *)OPENSSL_sk_new_reserve(ossl_check_X509_ALGOR_compfunc_type(cmp), (n)))
#define sk_X509_ALGOR_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_ALGOR_sk_type(sk), (n))
#define sk_X509_ALGOR_free(sk) OPENSSL_sk_free(ossl_check_X509_ALGOR_sk_type(sk))
#define sk_X509_ALGOR_zero(sk) OPENSSL_sk_zero(ossl_check_X509_ALGOR_sk_type(sk))
#define sk_X509_ALGOR_delete(sk, i) ((X509_ALGOR
*)OPENSSL_sk_delete(ossl_check_X509_ALGOR_sk_type(sk), (i)))
#define sk_X509_ALGOR_delete_ptr(sk, ptr) ((X509_ALGOR
*)OPENSSL_sk_delete_ptr(ossl_check_X509_ALGOR_sk_type(sk), ossl_check_X509_ALGOR_type(ptr)))
#define sk_X509_ALGOR_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_ALGOR_sk_type(sk),
ossl_check_X509_ALGOR_type(ptr))
#define sk_X509_ALGOR_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_ALGOR_sk_type(sk),
ossl_check_X509_ALGOR_type(ptr))
```

```
#define sk_X509_ALGOR_pop(sk) ((X509_ALGOR
*)OPENSSL_sk_pop(ossl_check_X509_ALGOR_sk_type(sk)))
#define sk_X509_ALGOR_shift(sk) ((X509_ALGOR
*)OPENSSL_sk_shift(ossl_check_X509_ALGOR_sk_type(sk)))
#define
 sk_X509_ALGOR_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_ALGOR_sk_type(sk),ossl_check_X509_ALGOR_freefunc_type(freefu
nc))
#define sk_X509_ALGOR_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_ALGOR_sk_type(sk),
ossl_check_X509_ALGOR_type(ptr), (idx))
#define sk_X509_ALGOR_set(sk, idx, ptr) ((X509_ALGOR
*)OPENSSL_sk_set(ossl_check_X509_ALGOR_sk_type(sk), (idx), ossl_check_X509_ALGOR_type(ptr)))
#define sk_X509_ALGOR_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_ALGOR_sk_type(sk),
ossl_check_X509_ALGOR_type(ptr))
#define sk_X509_ALGOR_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_ALGOR_sk_type(sk),
ossl_check_X509_ALGOR_type(ptr))
#define sk_X509_ALGOR_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_X509_ALGOR_sk_type(sk),
ossl_check_X509_ALGOR_type(ptr), pnum)
#define sk_X509_ALGOR_sort(sk) OPENSSL_sk_sort(ossl_check_X509_ALGOR_sk_type(sk))
#define sk_X509_ALGOR_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_X509_ALGOR_sk_type(sk))
#define
 sk_X509_ALGOR_dup(sk) ((STACK_OF(X509_ALGOR)
*)OPENSSL_sk_dup(ossl_check_const_X509_ALGOR_sk_type(sk)))
#define sk_X509_ALGOR_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_ALGOR)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_ALGOR_sk_type(sk),
ossl_check_X509_ALGOR_copyfunc_type(copyfunc), ossl_check_X509_ALGOR_freefunc_type(freefunc)))
#define sk_X509_ALGOR_set_cmp_func(sk, cmp)
((sk_X509_ALGOR_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_ALGOR_sk_type(sk),
ossl_check_X509_ALGOR_compfunc_type(cmp)))



# define ASN1_STRING_FLAG_BITS_LEFT 0x08/* Set if 0x07 has bits left value */
/*
* This indicates that the ASN1_STRING is not a real value but just a place
* holder for the location where indefinite length constructed data should be
* inserted in the memory buffer
*/
# define ASN1_STRING_FLAG_NDEF 0x010

/*
* This flag is used by the CMS code to indicate that a string is not
* complete and is a place holder for content when it had
 all been accessed.
* The flag will be reset when content has been written to it.
*/

# define ASN1_STRING_FLAG_CONT 0x020
```

```
/*
* This flag is used by ASN1 code to indicate an ASN1_STRING is an MSTRING
* type.
*/
# define ASN1_STRING_FLAG_MSTRING 0x040
/* String is embedded and only content should be freed */
# define ASN1_STRING_FLAG_EMBED 0x080
/* String should be parsed in RFC 5280's time format */
# define ASN1_STRING_FLAG_X509_TIME 0x100
/* This is the base type that holds just about everything :-) */
struct asn1_string_st {
   int length;
   int type;
   unsigned char *data;
   /*
    * The value of the following field depends on the type being held.  It
    * is mostly being used for BIT_STRING so if the input data has a
    * non-zero 'unused bits' value, it will be handled correctly
    */
   long flags;
};

/*
* ASN1_ENCODING structure: this is used to save the received encoding of an
* ASN1 type. This is useful to get round problems with invalid encodings
* which
 can break signatures.
*/

typedef struct ASN1_ENCODING_st {
   unsigned char *enc;        /* DER encoding */
   long len;                  /* Length of encoding */
   int modified;              /* set to 1 if 'enc' is invalid */
} ASN1_ENCODING;

/* Used with ASN1 LONG type: if a long is set to this it is omitted */
# define ASN1_LONG_UNDEF 0x7fffffffL

# define STABLE_FLAGS_MALLOC     0x01
/*
* A zero passed to ASN1_STRING_TABLE_new_add for the flags is interpreted
* as "don't change" and STABLE_FLAGS_MALLOC is always set. By setting
* STABLE_FLAGS_MALLOC only we can clear the existing value. Use the alias
* STABLE_FLAGS_CLEAR to reflect this.
*/
# define STABLE_FLAGS_CLEAR      STABLE_FLAGS_MALLOC
# define STABLE_NO_MASK          0x02
# define DIRSTRING_TYPE  \
```

```
(B_ASN1_PRINTABLESTRING|B_ASN1_T61STRING|B_ASN1_BMPSTRING|B_ASN1_UTF8STRING)
# define PKCS9STRING_TYPE (DIRSTRING_TYPE|B_ASN1_IA5STRING)

struct asn1_string_table_st {
   int nid;
   long minsize;
   long maxsize;
    unsigned long mask;
   unsigned long flags;
};

SKM_DEFINE_STACK_OF_INTERNAL(ASN1_STRING_TABLE, ASN1_STRING_TABLE,
ASN1_STRING_TABLE)
#define sk_ASN1_STRING_TABLE_num(sk)
OPENSSL_sk_num(ossl_check_const_ASN1_STRING_TABLE_sk_type(sk))
#define sk_ASN1_STRING_TABLE_value(sk, idx) ((ASN1_STRING_TABLE
*)OPENSSL_sk_value(ossl_check_const_ASN1_STRING_TABLE_sk_type(sk), (idx)))
#define sk_ASN1_STRING_TABLE_new(cmp) ((STACK_OF(ASN1_STRING_TABLE)
*)OPENSSL_sk_new(ossl_check_ASN1_STRING_TABLE_compfunc_type(cmp)))
#define sk_ASN1_STRING_TABLE_new_null() ((STACK_OF(ASN1_STRING_TABLE)
*)OPENSSL_sk_new_null())
#define sk_ASN1_STRING_TABLE_new_reserve(cmp, n) ((STACK_OF(ASN1_STRING_TABLE)
*)OPENSSL_sk_new_reserve(ossl_check_ASN1_STRING_TABLE_compfunc_type(cmp), (n)))
#define sk_ASN1_STRING_TABLE_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_ASN1_STRING_TABLE_sk_type(sk), (n))
#define sk_ASN1_STRING_TABLE_free(sk)
OPENSSL_sk_free(ossl_check_ASN1_STRING_TABLE_sk_type(sk))
#define sk_ASN1_STRING_TABLE_zero(sk)
 OPENSSL_sk_zero(ossl_check_ASN1_STRING_TABLE_sk_type(sk))
#define sk_ASN1_STRING_TABLE_delete(sk, i) ((ASN1_STRING_TABLE
*)OPENSSL_sk_delete(ossl_check_ASN1_STRING_TABLE_sk_type(sk), (i)))
#define sk_ASN1_STRING_TABLE_delete_ptr(sk, ptr) ((ASN1_STRING_TABLE
*)OPENSSL_sk_delete_ptr(ossl_check_ASN1_STRING_TABLE_sk_type(sk),
ossl_check_ASN1_STRING_TABLE_type(ptr)))
#define sk_ASN1_STRING_TABLE_push(sk, ptr)
OPENSSL_sk_push(ossl_check_ASN1_STRING_TABLE_sk_type(sk),
ossl_check_ASN1_STRING_TABLE_type(ptr))
#define sk_ASN1_STRING_TABLE_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_ASN1_STRING_TABLE_sk_type(sk),
ossl_check_ASN1_STRING_TABLE_type(ptr))
#define sk_ASN1_STRING_TABLE_pop(sk) ((ASN1_STRING_TABLE
*)OPENSSL_sk_pop(ossl_check_ASN1_STRING_TABLE_sk_type(sk)))
#define sk_ASN1_STRING_TABLE_shift(sk) ((ASN1_STRING_TABLE
*)OPENSSL_sk_shift(ossl_check_ASN1_STRING_TABLE_sk_type(sk)))
#define sk_ASN1_STRING_TABLE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ASN1_STRING_TABLE_sk_type(sk),ossl_check_ASN1_STRING_TABLE_
freefunc_type(freefunc))
#define
```

```
 sk_ASN1_STRING_TABLE_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_ASN1_STRING_TABLE_sk_type(sk),
ossl_check_ASN1_STRING_TABLE_type(ptr), (idx))
#define sk_ASN1_STRING_TABLE_set(sk, idx, ptr) ((ASN1_STRING_TABLE
*)OPENSSL_sk_set(ossl_check_ASN1_STRING_TABLE_sk_type(sk), (idx),
ossl_check_ASN1_STRING_TABLE_type(ptr)))
#define sk_ASN1_STRING_TABLE_find(sk, ptr)
OPENSSL_sk_find(ossl_check_ASN1_STRING_TABLE_sk_type(sk),
ossl_check_ASN1_STRING_TABLE_type(ptr))
#define sk_ASN1_STRING_TABLE_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_ASN1_STRING_TABLE_sk_type(sk),
ossl_check_ASN1_STRING_TABLE_type(ptr))
#define sk_ASN1_STRING_TABLE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ASN1_STRING_TABLE_sk_type(sk),
ossl_check_ASN1_STRING_TABLE_type(ptr), pnum)
#define sk_ASN1_STRING_TABLE_sort(sk)
OPENSSL_sk_sort(ossl_check_ASN1_STRING_TABLE_sk_type(sk))
#define sk_ASN1_STRING_TABLE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_ASN1_STRING_TABLE_sk_type(sk))
#define
 sk_ASN1_STRING_TABLE_dup(sk) ((STACK_OF(ASN1_STRING_TABLE)
*)OPENSSL_sk_dup(ossl_check_const_ASN1_STRING_TABLE_sk_type(sk)))
#define sk_ASN1_STRING_TABLE_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ASN1_STRING_TABLE)
*)OPENSSL_sk_deep_copy(ossl_check_const_ASN1_STRING_TABLE_sk_type(sk),
ossl_check_ASN1_STRING_TABLE_copyfunc_type(copyfunc),
ossl_check_ASN1_STRING_TABLE_freefunc_type(freefunc)))
#define sk_ASN1_STRING_TABLE_set_cmp_func(sk, cmp)
((sk_ASN1_STRING_TABLE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASN1_STRING_TABLE_sk_t
ype(sk), ossl_check_ASN1_STRING_TABLE_compfunc_type(cmp)))


/* size limits: this stuff is taken straight from RFC2459 */

# define ub_name                    32768
# define ub_common_name             64
# define ub_locality_name           128
# define ub_state_name              128
# define ub_organization_name       64
# define ub_organization_unit_name  64
#
 define ub_title                   64
# define ub_email_address           128

/*
* Declarations for template structures: for full definitions see asn1t.h
*/
typedef struct ASN1_TEMPLATE_st ASN1_TEMPLATE;
typedef struct ASN1_TLC_st ASN1_TLC;
```

```
/* This is just an opaque pointer */
typedef struct ASN1_VALUE_st ASN1_VALUE;

/* Declare ASN1 functions: the implement macro in in asn1t.h */

/*
* The mysterious 'extern' that's passed to some macros is innocuous,
* and is there to quiet pre-C99 compilers that may complain about empty
* arguments in macro calls.
*/

# define DECLARE_ASN1_FUNCTIONS_attr(attr, type)                        \
   DECLARE_ASN1_FUNCTIONS_name_attr(attr, type, type)
# define DECLARE_ASN1_FUNCTIONS(type)                                   \
   DECLARE_ASN1_FUNCTIONS_attr(extern, type)

# define DECLARE_ASN1_ALLOC_FUNCTIONS_attr(attr, type)                  \
   DECLARE_ASN1_ALLOC_FUNCTIONS_name_attr(attr, type, type)
# define DECLARE_ASN1_ALLOC_FUNCTIONS(type)
                          \
   DECLARE_ASN1_ALLOC_FUNCTIONS_attr(extern, type)

# define DECLARE_ASN1_FUNCTIONS_name_attr(attr, type, name)             \
   DECLARE_ASN1_ALLOC_FUNCTIONS_name_attr(attr, type, name)             \
   DECLARE_ASN1_ENCODE_FUNCTIONS_name_attr(attr, type, name)
# define DECLARE_ASN1_FUNCTIONS_name(type, name)                        \
   DECLARE_ASN1_FUNCTIONS_name_attr(extern, type, name)

# define DECLARE_ASN1_ENCODE_FUNCTIONS_attr(attr, type, itname, name)      \
   DECLARE_ASN1_ENCODE_FUNCTIONS_only_attr(attr, type, name)            \
   DECLARE_ASN1_ITEM_attr(attr, itname)
# define DECLARE_ASN1_ENCODE_FUNCTIONS(type, itname, name)              \
   DECLARE_ASN1_ENCODE_FUNCTIONS_attr(extern, type, itname, name)

# define DECLARE_ASN1_ENCODE_FUNCTIONS_name_attr(attr, type, name)        \
   DECLARE_ASN1_ENCODE_FUNCTIONS_attr(attr, type, name, name)
# define DECLARE_ASN1_ENCODE_FUNCTIONS_name(type, name)
 \
   DECLARE_ASN1_ENCODE_FUNCTIONS_name_attr(extern, type, name)

# define DECLARE_ASN1_ENCODE_FUNCTIONS_only_attr(attr, type, name)        \
   attr type *d2i_##name(type **a, const unsigned char **in, long len);    \
   attr int i2d_##name(const type *a, unsigned char **out);
# define DECLARE_ASN1_ENCODE_FUNCTIONS_only(type, name)                 \
   DECLARE_ASN1_ENCODE_FUNCTIONS_only_attr(extern, type, name)

# define DECLARE_ASN1_NDEF_FUNCTION_attr(attr, name)                    \
   attr int i2d_##name##_NDEF(const name *a, unsigned char **out);
```

```
# define DECLARE_ASN1_NDEF_FUNCTION(name)                                \
   DECLARE_ASN1_NDEF_FUNCTION_attr(extern, name)

# define DECLARE_ASN1_ALLOC_FUNCTIONS_name_attr(attr, type, name)        \
   attr type *name##_new(void);                                          \
   attr void name##_free(type *a);
# define DECLARE_ASN1_ALLOC_FUNCTIONS_name(type, name)                   \
   DECLARE_ASN1_ALLOC_FUNCTIONS_name_attr(extern,
 type, name)

# define DECLARE_ASN1_DUP_FUNCTION_attr(attr, type)                      \
   DECLARE_ASN1_DUP_FUNCTION_name_attr(attr, type, type)
# define DECLARE_ASN1_DUP_FUNCTION(type)                                 \
   DECLARE_ASN1_DUP_FUNCTION_attr(extern, type)

# define DECLARE_ASN1_DUP_FUNCTION_name_attr(attr, type, name)           \
   attr type *name##_dup(const type *a);
# define DECLARE_ASN1_DUP_FUNCTION_name(type, name)                      \
   DECLARE_ASN1_DUP_FUNCTION_name_attr(extern, type, name)

# define DECLARE_ASN1_PRINT_FUNCTION_attr(attr, stname)                  \
   DECLARE_ASN1_PRINT_FUNCTION_fname_attr(attr, stname, stname)
# define DECLARE_ASN1_PRINT_FUNCTION(stname)                             \
   DECLARE_ASN1_PRINT_FUNCTION_attr(extern, stname)

# define DECLARE_ASN1_PRINT_FUNCTION_fname_attr(attr, stname, fname)     \
   attr int fname##_print_ctx(BIO *out, const stname *x, int indent,     \

                      const ASN1_PCTX *pctx);
# define DECLARE_ASN1_PRINT_FUNCTION_fname(stname, fname)                \
   DECLARE_ASN1_PRINT_FUNCTION_fname_attr(extern, stname, fname)

# define D2I_OF(type) type *(*)(type **,const unsigned char **,long)
# define I2D_OF(type) int (*)(const type *,unsigned char **)

# define CHECKED_D2I_OF(type, d2i) \
   ((d2i_of_void*) (1 ? d2i : ((D2I_OF(type))0)))
# define CHECKED_I2D_OF(type, i2d) \
   ((i2d_of_void*) (1 ? i2d : ((I2D_OF(type))0)))
# define CHECKED_NEW_OF(type, xnew) \
   ((void *(*)(void)) (1 ? xnew : ((type *(*)(void))0)))
# define CHECKED_PTR_OF(type, p) \
   ((void*) (1 ? p : (type*)0))
# define CHECKED_PPTR_OF(type, p) \
   ((void**) (1 ? p : (type**)0))

# define TYPEDEF_D2I_OF(type) typedef type *d2i_of_##type(type **,const unsigned char **,long)
# define TYPEDEF_I2D_OF(type) typedef int i2d_of_##type(const type *,unsigned char **)
```

```
# define TYPEDEF_D2I2D_OF(type) TYPEDEF_D2I_OF(type); TYPEDEF_I2D_OF(type)

typedef
 void *d2i_of_void(void **, const unsigned char **, long);
typedef int i2d_of_void(const void *, unsigned char **);

/*-
* The following macros and typedefs allow an ASN1_ITEM
* to be embedded in a structure and referenced. Since
* the ASN1_ITEM pointers need to be globally accessible
* (possibly from shared libraries) they may exist in
* different forms. On platforms that support it the
* ASN1_ITEM structure itself will be globally exported.
* Other platforms will export a function that returns
* an ASN1_ITEM pointer.
*
* To handle both cases transparently the macros below
* should be used instead of hard coding an ASN1_ITEM
* pointer in a structure.
*
* The structure will look like this:
*
* typedef struct SOMETHING_st {
*      ...
*      ASN1_ITEM_EXP *iptr;
*      ...
* } SOMETHING;
*
* It would be initialised as e.g.:
*
* SOMETHING somevar = {...,ASN1_ITEM_ref(X509),...};
*
* and the actual pointer extracted with:
*
* const ASN1_ITEM *it = ASN1_ITEM_ptr(somevar.iptr);
 *
* Finally an ASN1_ITEM pointer can be extracted from an
* appropriate reference with: ASN1_ITEM_rptr(X509). This
* would be used when a function takes an ASN1_ITEM * argument.
*
*/


/*
* Platforms that can't easily handle shared global variables are declared as
* functions returning ASN1_ITEM pointers.
*/
```

```
/* ASN1_ITEM pointer exported type */
typedef const ASN1_ITEM *ASN1_ITEM_EXP (void);

/* Macro to obtain ASN1_ITEM pointer from exported type */
# define ASN1_ITEM_ptr(iptr) (iptr())

/* Macro to include ASN1_ITEM pointer from base type */
# define ASN1_ITEM_ref(iptr) (iptr##_it)

# define ASN1_ITEM_rptr(ref) (ref##_it())

# define DECLARE_ASN1_ITEM_attr(attr, name)                          \
   attr const ASN1_ITEM * name##_it(void);
# define DECLARE_ASN1_ITEM(name)                                     \
   DECLARE_ASN1_ITEM_attr(extern, name)

/* Parameters used by ASN1_STRING_print_ex() */

/*
* These determine which characters to escape:
 RFC2253 special characters,
* control characters and MSB set characters
*/

# define ASN1_STRFLGS_ESC_2253          1
# define ASN1_STRFLGS_ESC_CTRL          2
# define ASN1_STRFLGS_ESC_MSB           4

/* Lower 8 bits are reserved as an output type specifier */
# define ASN1_DTFLGS_TYPE_MASK    0x0FUL
# define ASN1_DTFLGS_RFC822       0x00UL
# define ASN1_DTFLGS_ISO8601      0x01UL

/*
* This flag determines how we do escaping: normally RC2253 backslash only,
* set this to use backslash and quote.
*/

# define ASN1_STRFLGS_ESC_QUOTE         8

/* These three flags are internal use only. */

/* Character is a valid PrintableString character */
# define CHARTYPE_PRINTABLESTRING        0x10
/* Character needs escaping if it is the first character */
# define CHARTYPE_FIRST_ESC_2253         0x20
/* Character needs escaping if it is the last character */
# define CHARTYPE_LAST_ESC_2253          0x40
```

```
/*
* NB the internal flags are safely reused below by flags handled at the top
 * level.
*/

/*
* If this is set we convert all character strings to UTF8 first
*/

# define ASN1_STRFLGS_UTF8_CONVERT       0x10

/*
* If this is set we don't attempt to interpret content: just assume all
* strings are 1 byte per character. This will produce some pretty odd
* looking output!
*/

# define ASN1_STRFLGS_IGNORE_TYPE        0x20

/* If this is set we include the string type in the output */
# define ASN1_STRFLGS_SHOW_TYPE          0x40

/*
* This determines which strings to display and which to 'dump' (hex dump of
* content octets or DER encoding). We can only dump non character strings or
* everything. If we don't dump 'unknown' they are interpreted as character
* strings with 1 octet per character and are subject to the usual escaping
* options.
*/

# define ASN1_STRFLGS_DUMP_ALL           0x80
# define ASN1_STRFLGS_DUMP_UNKNOWN       0x100

/*
* These determine what 'dumping' does, we can dump the content octets or the
* DER encoding: both use the RFC2253
 #XXXXX notation.
*/

# define ASN1_STRFLGS_DUMP_DER           0x200

/*
* This flag specifies that RC2254 escaping shall be performed.
*/
#define ASN1_STRFLGS_ESC_2254           0x400

/*
```

```
* All the string flags consistent with RFC2253, escaping control characters
* isn't essential in RFC2253 but it is advisable anyway.
*/

# define ASN1_STRFLGS_RFC2253    (ASN1_STRFLGS_ESC_2253 | \
                                 ASN1_STRFLGS_ESC_CTRL | \
                                 ASN1_STRFLGS_ESC_MSB | \
                                 ASN1_STRFLGS_UTF8_CONVERT | \
                                 ASN1_STRFLGS_DUMP_UNKNOWN | \
                                 ASN1_STRFLGS_DUMP_DER)


struct asn1_type_st {
  int type;
  union {
      char *ptr;
      ASN1_BOOLEAN boolean;
      ASN1_STRING *asn1_string;
      ASN1_OBJECT *object;
      ASN1_INTEGER *integer;
      ASN1_ENUMERATED *enumerated;
      ASN1_BIT_STRING *bit_string;
      ASN1_OCTET_STRING *octet_string;

     ASN1_PRINTABLESTRING *printablestring;
      ASN1_T61STRING *t61string;
      ASN1_IA5STRING *ia5string;
      ASN1_GENERALSTRING *generalstring;
      ASN1_BMPSTRING *bmpstring;
      ASN1_UNIVERSALSTRING *universalstring;
      ASN1_UTCTIME *utctime;
      ASN1_GENERALIZEDTIME *generalizedtime;
      ASN1_VISIBLESTRING *visiblestring;
      ASN1_UTF8STRING *utf8string;
      /*
       * set and sequence are left complete and still contain the set or
       * sequence bytes
       */
      ASN1_STRING *set;
      ASN1_STRING *sequence;
      ASN1_VALUE *asn1_value;
  } value;
};

SKM_DEFINE_STACK_OF_INTERNAL(ASN1_TYPE, ASN1_TYPE, ASN1_TYPE)
#define sk_ASN1_TYPE_num(sk) OPENSSL_sk_num(ossl_check_const_ASN1_TYPE_sk_type(sk))
#define sk_ASN1_TYPE_value(sk, idx) ((ASN1_TYPE
*)OPENSSL_sk_value(ossl_check_const_ASN1_TYPE_sk_type(sk), (idx)))
```

```
#define sk_ASN1_TYPE_new(cmp) ((STACK_OF(ASN1_TYPE)
*)OPENSSL_sk_new(ossl_check_ASN1_TYPE_compfunc_type(cmp)))
#define
 sk_ASN1_TYPE_new_null() ((STACK_OF(ASN1_TYPE) *)OPENSSL_sk_new_null())
#define sk_ASN1_TYPE_new_reserve(cmp, n) ((STACK_OF(ASN1_TYPE)
*)OPENSSL_sk_new_reserve(ossl_check_ASN1_TYPE_compfunc_type(cmp), (n)))
#define sk_ASN1_TYPE_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ASN1_TYPE_sk_type(sk), (n))
#define sk_ASN1_TYPE_free(sk) OPENSSL_sk_free(ossl_check_ASN1_TYPE_sk_type(sk))
#define sk_ASN1_TYPE_zero(sk) OPENSSL_sk_zero(ossl_check_ASN1_TYPE_sk_type(sk))
#define sk_ASN1_TYPE_delete(sk, i) ((ASN1_TYPE
*)OPENSSL_sk_delete(ossl_check_ASN1_TYPE_sk_type(sk), (i)))
#define sk_ASN1_TYPE_delete_ptr(sk, ptr) ((ASN1_TYPE
*)OPENSSL_sk_delete_ptr(ossl_check_ASN1_TYPE_sk_type(sk), ossl_check_ASN1_TYPE_type(ptr)))
#define sk_ASN1_TYPE_push(sk, ptr) OPENSSL_sk_push(ossl_check_ASN1_TYPE_sk_type(sk),
ossl_check_ASN1_TYPE_type(ptr))
#define sk_ASN1_TYPE_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_ASN1_TYPE_sk_type(sk),
ossl_check_ASN1_TYPE_type(ptr))
#define sk_ASN1_TYPE_pop(sk) ((ASN1_TYPE *)OPENSSL_sk_pop(ossl_check_ASN1_TYPE_sk_type(sk)))
#define
 sk_ASN1_TYPE_shift(sk) ((ASN1_TYPE *)OPENSSL_sk_shift(ossl_check_ASN1_TYPE_sk_type(sk)))
#define sk_ASN1_TYPE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ASN1_TYPE_sk_type(sk),ossl_check_ASN1_TYPE_freefunc_type(freefunc))
#define sk_ASN1_TYPE_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_ASN1_TYPE_sk_type(sk),
ossl_check_ASN1_TYPE_type(ptr), (idx))
#define sk_ASN1_TYPE_set(sk, idx, ptr) ((ASN1_TYPE
*)OPENSSL_sk_set(ossl_check_ASN1_TYPE_sk_type(sk), (idx), ossl_check_ASN1_TYPE_type(ptr)))
#define sk_ASN1_TYPE_find(sk, ptr) OPENSSL_sk_find(ossl_check_ASN1_TYPE_sk_type(sk),
ossl_check_ASN1_TYPE_type(ptr))
#define sk_ASN1_TYPE_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_ASN1_TYPE_sk_type(sk),
ossl_check_ASN1_TYPE_type(ptr))
#define sk_ASN1_TYPE_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_ASN1_TYPE_sk_type(sk),
ossl_check_ASN1_TYPE_type(ptr), pnum)
#define sk_ASN1_TYPE_sort(sk) OPENSSL_sk_sort(ossl_check_ASN1_TYPE_sk_type(sk))
#define
 sk_ASN1_TYPE_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_ASN1_TYPE_sk_type(sk))
#define sk_ASN1_TYPE_dup(sk) ((STACK_OF(ASN1_TYPE)
*)OPENSSL_sk_dup(ossl_check_const_ASN1_TYPE_sk_type(sk)))
#define sk_ASN1_TYPE_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ASN1_TYPE)
*)OPENSSL_sk_deep_copy(ossl_check_const_ASN1_TYPE_sk_type(sk),
ossl_check_ASN1_TYPE_copyfunc_type(copyfunc), ossl_check_ASN1_TYPE_freefunc_type(freefunc)))
#define sk_ASN1_TYPE_set_cmp_func(sk, cmp)
((sk_ASN1_TYPE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASN1_TYPE_sk_type(sk),
ossl_check_ASN1_TYPE_compfunc_type(cmp)))


typedef STACK_OF(ASN1_TYPE) ASN1_SEQUENCE_ANY;

DECLARE_ASN1_ENCODE_FUNCTIONS_name(ASN1_SEQUENCE_ANY, ASN1_SEQUENCE_ANY)
```

```
DECLARE_ASN1_ENCODE_FUNCTIONS_name(ASN1_SEQUENCE_ANY, ASN1_SET_ANY)

/* This is used to contain a list of bit names */
typedef struct BIT_STRING_BITNAME_st {
   int bitnum;
   const char *lname;
   const char *sname;
} BIT_STRING_BITNAME;

# define
 B_ASN1_TIME \
                    B_ASN1_UTCTIME | \
                    B_ASN1_GENERALIZEDTIME

# define B_ASN1_PRINTABLE \
                    B_ASN1_NUMERICSTRING| \
                    B_ASN1_PRINTABLESTRING| \
                    B_ASN1_T61STRING| \
                    B_ASN1_IA5STRING| \
                    B_ASN1_BIT_STRING| \
                    B_ASN1_UNIVERSALSTRING|\
                    B_ASN1_BMPSTRING|\
                    B_ASN1_UTF8STRING|\
                    B_ASN1_SEQUENCE|\
                    B_ASN1_UNKNOWN

# define B_ASN1_DIRECTORYSTRING \
                    B_ASN1_PRINTABLESTRING| \
                    B_ASN1_TELETEXSTRING|\
                    B_ASN1_BMPSTRING|\
                    B_ASN1_UNIVERSALSTRING|\
                    B_ASN1_UTF8STRING

# define B_ASN1_DISPLAYTEXT \
                    B_ASN1_IA5STRING| \
                    B_ASN1_VISIBLESTRING| \
                    B_ASN1_BMPSTRING|\
                     B_ASN1_UTF8STRING

DECLARE_ASN1_ALLOC_FUNCTIONS_name(ASN1_TYPE, ASN1_TYPE)
DECLARE_ASN1_ENCODE_FUNCTIONS(ASN1_TYPE, ASN1_ANY, ASN1_TYPE)

int ASN1_TYPE_get(const ASN1_TYPE *a);
void ASN1_TYPE_set(ASN1_TYPE *a, int type, void *value);
int ASN1_TYPE_set1(ASN1_TYPE *a, int type, const void *value);
int ASN1_TYPE_cmp(const ASN1_TYPE *a, const ASN1_TYPE *b);

ASN1_TYPE *ASN1_TYPE_pack_sequence(const ASN1_ITEM *it, void *s, ASN1_TYPE **t);
```

```
void *ASN1_TYPE_unpack_sequence(const ASN1_ITEM *it, const ASN1_TYPE *t);

SKM_DEFINE_STACK_OF_INTERNAL(ASN1_OBJECT, ASN1_OBJECT, ASN1_OBJECT)
#define sk_ASN1_OBJECT_num(sk) OPENSSL_sk_num(ossl_check_const_ASN1_OBJECT_sk_type(sk))
#define sk_ASN1_OBJECT_value(sk, idx) ((ASN1_OBJECT
*)OPENSSL_sk_value(ossl_check_const_ASN1_OBJECT_sk_type(sk), (idx)))
#define sk_ASN1_OBJECT_new(cmp) ((STACK_OF(ASN1_OBJECT)
*)OPENSSL_sk_new(ossl_check_ASN1_OBJECT_compfunc_type(cmp)))
#define sk_ASN1_OBJECT_new_null() ((STACK_OF(ASN1_OBJECT)
 *)OPENSSL_sk_new_null())
#define sk_ASN1_OBJECT_new_reserve(cmp, n) ((STACK_OF(ASN1_OBJECT)
*)OPENSSL_sk_new_reserve(ossl_check_ASN1_OBJECT_compfunc_type(cmp), (n)))
#define sk_ASN1_OBJECT_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ASN1_OBJECT_sk_type(sk), (n))
#define sk_ASN1_OBJECT_free(sk) OPENSSL_sk_free(ossl_check_ASN1_OBJECT_sk_type(sk))
#define sk_ASN1_OBJECT_zero(sk) OPENSSL_sk_zero(ossl_check_ASN1_OBJECT_sk_type(sk))
#define sk_ASN1_OBJECT_delete(sk, i) ((ASN1_OBJECT
*)OPENSSL_sk_delete(ossl_check_ASN1_OBJECT_sk_type(sk), (i)))
#define sk_ASN1_OBJECT_delete_ptr(sk, ptr) ((ASN1_OBJECT
*)OPENSSL_sk_delete_ptr(ossl_check_ASN1_OBJECT_sk_type(sk), ossl_check_ASN1_OBJECT_type(ptr)))
#define sk_ASN1_OBJECT_push(sk, ptr) OPENSSL_sk_push(ossl_check_ASN1_OBJECT_sk_type(sk),
ossl_check_ASN1_OBJECT_type(ptr))
#define sk_ASN1_OBJECT_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_ASN1_OBJECT_sk_type(sk),
ossl_check_ASN1_OBJECT_type(ptr))
#define sk_ASN1_OBJECT_pop(sk) ((ASN1_OBJECT
*)OPENSSL_sk_pop(ossl_check_ASN1_OBJECT_sk_type(sk)))
#define
 sk_ASN1_OBJECT_shift(sk) ((ASN1_OBJECT *)OPENSSL_sk_shift(ossl_check_ASN1_OBJECT_sk_type(sk)))
#define sk_ASN1_OBJECT_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ASN1_OBJECT_sk_type(sk),ossl_check_ASN1_OBJECT_freefunc_type(free
func))
#define sk_ASN1_OBJECT_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_ASN1_OBJECT_sk_type(sk),
ossl_check_ASN1_OBJECT_type(ptr), (idx))
#define sk_ASN1_OBJECT_set(sk, idx, ptr) ((ASN1_OBJECT
*)OPENSSL_sk_set(ossl_check_ASN1_OBJECT_sk_type(sk), (idx), ossl_check_ASN1_OBJECT_type(ptr)))
#define sk_ASN1_OBJECT_find(sk, ptr) OPENSSL_sk_find(ossl_check_ASN1_OBJECT_sk_type(sk),
ossl_check_ASN1_OBJECT_type(ptr))
#define sk_ASN1_OBJECT_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_ASN1_OBJECT_sk_type(sk),
ossl_check_ASN1_OBJECT_type(ptr))
#define sk_ASN1_OBJECT_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ASN1_OBJECT_sk_type(sk), ossl_check_ASN1_OBJECT_type(ptr), pnum)
#define sk_ASN1_OBJECT_sort(sk)
 OPENSSL_sk_sort(ossl_check_ASN1_OBJECT_sk_type(sk))
#define sk_ASN1_OBJECT_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_ASN1_OBJECT_sk_type(sk))
#define sk_ASN1_OBJECT_dup(sk) ((STACK_OF(ASN1_OBJECT)
*)OPENSSL_sk_dup(ossl_check_const_ASN1_OBJECT_sk_type(sk)))
#define sk_ASN1_OBJECT_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ASN1_OBJECT)
*)OPENSSL_sk_deep_copy(ossl_check_const_ASN1_OBJECT_sk_type(sk),
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```
ossl_check_ASN1_OBJECT_copyfunc_type(copyfunc), ossl_check_ASN1_OBJECT_freefunc_type(freefunc)))
#define sk_ASN1_OBJECT_set_cmp_func(sk, cmp)
((sk_ASN1_OBJECT_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASN1_OBJECT_sk_type(sk),
ossl_check_ASN1_OBJECT_compfunc_type(cmp)))


DECLARE_ASN1_FUNCTIONS(ASN1_OBJECT)

ASN1_STRING *ASN1_STRING_new(void);
void ASN1_STRING_free(ASN1_STRING *a);
void ASN1_STRING_clear_free(ASN1_STRING *a);
int ASN1_STRING_copy(ASN1_STRING *dst, const ASN1_STRING *str);
DECLARE_ASN1_DUP_FUNCTION(ASN1_STRING)
ASN1_STRING *ASN1_STRING_type_new(int
 type);
int ASN1_STRING_cmp(const ASN1_STRING *a, const ASN1_STRING *b);
 /*
  * Since this is used to store all sorts of things, via macros, for now,
  * make its data void *
  */
int ASN1_STRING_set(ASN1_STRING *str, const void *data, int len);
void ASN1_STRING_set0(ASN1_STRING *str, void *data, int len);
int ASN1_STRING_length(const ASN1_STRING *x);
# ifndef OPENSSL_NO_DEPRECATED_3_0
OSSL_DEPRECATEDIN_3_0 void ASN1_STRING_length_set(ASN1_STRING *x, int n);
# endif
int ASN1_STRING_type(const ASN1_STRING *x);
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 unsigned char *ASN1_STRING_data(ASN1_STRING *x);
# endif
const unsigned char *ASN1_STRING_get0_data(const ASN1_STRING *x);

DECLARE_ASN1_FUNCTIONS(ASN1_BIT_STRING)
int ASN1_BIT_STRING_set(ASN1_BIT_STRING *a, unsigned char *d, int length);
int ASN1_BIT_STRING_set_bit(ASN1_BIT_STRING *a, int n, int value);
int ASN1_BIT_STRING_get_bit(const ASN1_BIT_STRING *a, int n);
int ASN1_BIT_STRING_check(const ASN1_BIT_STRING
 *a,
                      const unsigned char *flags, int flags_len);

int ASN1_BIT_STRING_name_print(BIO *out, ASN1_BIT_STRING *bs,
                         BIT_STRING_BITNAME *tbl, int indent);
int ASN1_BIT_STRING_num_asc(const char *name, BIT_STRING_BITNAME *tbl);
int ASN1_BIT_STRING_set_asc(ASN1_BIT_STRING *bs, const char *name, int value,
                       BIT_STRING_BITNAME *tbl);

SKM_DEFINE_STACK_OF_INTERNAL(ASN1_INTEGER, ASN1_INTEGER, ASN1_INTEGER)
#define sk_ASN1_INTEGER_num(sk) OPENSSL_sk_num(ossl_check_const_ASN1_INTEGER_sk_type(sk))
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```
#define sk_ASN1_INTEGER_value(sk, idx) ((ASN1_INTEGER
*)OPENSSL_sk_value(ossl_check_const_ASN1_INTEGER_sk_type(sk), (idx)))
#define sk_ASN1_INTEGER_new(cmp) ((STACK_OF(ASN1_INTEGER)
*)OPENSSL_sk_new(ossl_check_ASN1_INTEGER_compfunc_type(cmp)))
#define sk_ASN1_INTEGER_new_null() ((STACK_OF(ASN1_INTEGER) *)OPENSSL_sk_new_null())
#define sk_ASN1_INTEGER_new_reserve(cmp, n) ((STACK_OF(ASN1_INTEGER)
*)OPENSSL_sk_new_reserve(ossl_check_ASN1_INTEGER_compfunc_type(cmp),
 (n)))
#define sk_ASN1_INTEGER_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ASN1_INTEGER_sk_type(sk),
(n))
#define sk_ASN1_INTEGER_free(sk) OPENSSL_sk_free(ossl_check_ASN1_INTEGER_sk_type(sk))
#define sk_ASN1_INTEGER_zero(sk) OPENSSL_sk_zero(ossl_check_ASN1_INTEGER_sk_type(sk))
#define sk_ASN1_INTEGER_delete(sk, i) ((ASN1_INTEGER
*)OPENSSL_sk_delete(ossl_check_ASN1_INTEGER_sk_type(sk), (i)))
#define sk_ASN1_INTEGER_delete_ptr(sk, ptr) ((ASN1_INTEGER
*)OPENSSL_sk_delete_ptr(ossl_check_ASN1_INTEGER_sk_type(sk), ossl_check_ASN1_INTEGER_type(ptr)))
#define sk_ASN1_INTEGER_push(sk, ptr) OPENSSL_sk_push(ossl_check_ASN1_INTEGER_sk_type(sk),
ossl_check_ASN1_INTEGER_type(ptr))
#define sk_ASN1_INTEGER_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_ASN1_INTEGER_sk_type(sk),
ossl_check_ASN1_INTEGER_type(ptr))
#define sk_ASN1_INTEGER_pop(sk) ((ASN1_INTEGER
*)OPENSSL_sk_pop(ossl_check_ASN1_INTEGER_sk_type(sk)))
#define sk_ASN1_INTEGER_shift(sk) ((ASN1_INTEGER
 *)OPENSSL_sk_shift(ossl_check_ASN1_INTEGER_sk_type(sk)))
#define sk_ASN1_INTEGER_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ASN1_INTEGER_sk_type(sk),ossl_check_ASN1_INTEGER_freefunc_type(f
reefunc))
#define sk_ASN1_INTEGER_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_ASN1_INTEGER_sk_type(sk),
ossl_check_ASN1_INTEGER_type(ptr), (idx))
#define sk_ASN1_INTEGER_set(sk, idx, ptr) ((ASN1_INTEGER
*)OPENSSL_sk_set(ossl_check_ASN1_INTEGER_sk_type(sk), (idx), ossl_check_ASN1_INTEGER_type(ptr)))
#define sk_ASN1_INTEGER_find(sk, ptr) OPENSSL_sk_find(ossl_check_ASN1_INTEGER_sk_type(sk),
ossl_check_ASN1_INTEGER_type(ptr))
#define sk_ASN1_INTEGER_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_ASN1_INTEGER_sk_type(sk),
ossl_check_ASN1_INTEGER_type(ptr))
#define sk_ASN1_INTEGER_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ASN1_INTEGER_sk_type(sk), ossl_check_ASN1_INTEGER_type(ptr), pnum)
#define sk_ASN1_INTEGER_sort(sk) OPENSSL_sk_sort(ossl_check_ASN1_INTEGER_sk_type(sk))
#define
 sk_ASN1_INTEGER_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_ASN1_INTEGER_sk_type(sk))
#define sk_ASN1_INTEGER_dup(sk) ((STACK_OF(ASN1_INTEGER)
*)OPENSSL_sk_dup(ossl_check_const_ASN1_INTEGER_sk_type(sk)))
#define sk_ASN1_INTEGER_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ASN1_INTEGER)
*)OPENSSL_sk_deep_copy(ossl_check_const_ASN1_INTEGER_sk_type(sk),
ossl_check_ASN1_INTEGER_copyfunc_type(copyfunc), ossl_check_ASN1_INTEGER_freefunc_type(freefunc)))
#define sk_ASN1_INTEGER_set_cmp_func(sk, cmp)
((sk_ASN1_INTEGER_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASN1_INTEGER_sk_type(sk),
ossl_check_ASN1_INTEGER_compfunc_type(cmp)))
```

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DECLARE_ASN1_FUNCTIONS(ASN1_INTEGER)
ASN1_INTEGER *d2i_ASN1_UINTEGER(ASN1_INTEGER **a, const unsigned char **pp,
                        long length);
DECLARE_ASN1_DUP_FUNCTION(ASN1_INTEGER)
int ASN1_INTEGER_cmp(const ASN1_INTEGER *x, const ASN1_INTEGER *y);

DECLARE_ASN1_FUNCTIONS(ASN1_ENUMERATED)

int ASN1_UTCTIME_check(const ASN1_UTCTIME *a);
ASN1_UTCTIME
 *ASN1_UTCTIME_set(ASN1_UTCTIME *s, time_t t);
ASN1_UTCTIME *ASN1_UTCTIME_adj(ASN1_UTCTIME *s, time_t t,
                        int offset_day, long offset_sec);
int ASN1_UTCTIME_set_string(ASN1_UTCTIME *s, const char *str);
int ASN1_UTCTIME_cmp_time_t(const ASN1_UTCTIME *s, time_t t);

int ASN1_GENERALIZEDTIME_check(const ASN1_GENERALIZEDTIME *a);
ASN1_GENERALIZEDTIME *ASN1_GENERALIZEDTIME_set(ASN1_GENERALIZEDTIME *s,
                                time_t t);
ASN1_GENERALIZEDTIME *ASN1_GENERALIZEDTIME_adj(ASN1_GENERALIZEDTIME *s,
                                time_t t, int offset_day,
                                long offset_sec);
int ASN1_GENERALIZEDTIME_set_string(ASN1_GENERALIZEDTIME *s, const char *str);

int ASN1_TIME_diff(int *pday, int *psec,
            const ASN1_TIME *from, const ASN1_TIME *to);

DECLARE_ASN1_FUNCTIONS(ASN1_OCTET_STRING)
DECLARE_ASN1_DUP_FUNCTION(ASN1_OCTET_STRING)
int ASN1_OCTET_STRING_cmp(const
 ASN1_OCTET_STRING *a,
                    const ASN1_OCTET_STRING *b);
int ASN1_OCTET_STRING_set(ASN1_OCTET_STRING *str, const unsigned char *data,
                    int len);

SKM_DEFINE_STACK_OF_INTERNAL(ASN1_UTF8STRING, ASN1_UTF8STRING, ASN1_UTF8STRING)
#define sk_ASN1_UTF8STRING_num(sk)
OPENSSL_sk_num(ossl_check_const_ASN1_UTF8STRING_sk_type(sk))
#define sk_ASN1_UTF8STRING_value(sk, idx) ((ASN1_UTF8STRING
*)OPENSSL_sk_value(ossl_check_const_ASN1_UTF8STRING_sk_type(sk), (idx)))
#define sk_ASN1_UTF8STRING_new(cmp) ((STACK_OF(ASN1_UTF8STRING)
*)OPENSSL_sk_new(ossl_check_ASN1_UTF8STRING_compfunc_type(cmp)))
#define sk_ASN1_UTF8STRING_new_null() ((STACK_OF(ASN1_UTF8STRING) *)OPENSSL_sk_new_null())
#define sk_ASN1_UTF8STRING_new_reserve(cmp, n) ((STACK_OF(ASN1_UTF8STRING)
*)OPENSSL_sk_new_reserve(ossl_check_ASN1_UTF8STRING_compfunc_type(cmp), (n)))
```

```
#define sk_ASN1_UTF8STRING_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_ASN1_UTF8STRING_sk_type(sk), (n))
#define
 sk_ASN1_UTF8STRING_free(sk) OPENSSL_sk_free(ossl_check_ASN1_UTF8STRING_sk_type(sk))
#define sk_ASN1_UTF8STRING_zero(sk) OPENSSL_sk_zero(ossl_check_ASN1_UTF8STRING_sk_type(sk))
#define sk_ASN1_UTF8STRING_delete(sk, i) ((ASN1_UTF8STRING
*)OPENSSL_sk_delete(ossl_check_ASN1_UTF8STRING_sk_type(sk), (i)))
#define sk_ASN1_UTF8STRING_delete_ptr(sk, ptr) ((ASN1_UTF8STRING
*)OPENSSL_sk_delete_ptr(ossl_check_ASN1_UTF8STRING_sk_type(sk),
ossl_check_ASN1_UTF8STRING_type(ptr)))
#define sk_ASN1_UTF8STRING_push(sk, ptr)
OPENSSL_sk_push(ossl_check_ASN1_UTF8STRING_sk_type(sk), ossl_check_ASN1_UTF8STRING_type(ptr))
#define sk_ASN1_UTF8STRING_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_ASN1_UTF8STRING_sk_type(sk),
ossl_check_ASN1_UTF8STRING_type(ptr))
#define sk_ASN1_UTF8STRING_pop(sk) ((ASN1_UTF8STRING
*)OPENSSL_sk_pop(ossl_check_ASN1_UTF8STRING_sk_type(sk)))
#define sk_ASN1_UTF8STRING_shift(sk) ((ASN1_UTF8STRING
*)OPENSSL_sk_shift(ossl_check_ASN1_UTF8STRING_sk_type(sk)))
#define sk_ASN1_UTF8STRING_pop_free(sk,
 freefunc)
OPENSSL_sk_pop_free(ossl_check_ASN1_UTF8STRING_sk_type(sk),ossl_check_ASN1_UTF8STRING_freefun
c_type(freefunc))
#define sk_ASN1_UTF8STRING_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_ASN1_UTF8STRING_sk_type(sk), ossl_check_ASN1_UTF8STRING_type(ptr),
(idx))
#define sk_ASN1_UTF8STRING_set(sk, idx, ptr) ((ASN1_UTF8STRING
*)OPENSSL_sk_set(ossl_check_ASN1_UTF8STRING_sk_type(sk), (idx),
ossl_check_ASN1_UTF8STRING_type(ptr)))
#define sk_ASN1_UTF8STRING_find(sk, ptr) OPENSSL_sk_find(ossl_check_ASN1_UTF8STRING_sk_type(sk),
ossl_check_ASN1_UTF8STRING_type(ptr))
#define sk_ASN1_UTF8STRING_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_ASN1_UTF8STRING_sk_type(sk),
ossl_check_ASN1_UTF8STRING_type(ptr))
#define sk_ASN1_UTF8STRING_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ASN1_UTF8STRING_sk_type(sk),
ossl_check_ASN1_UTF8STRING_type(ptr), pnum)
#define sk_ASN1_UTF8STRING_sort(sk) OPENSSL_sk_sort(ossl_check_ASN1_UTF8STRING_sk_type(sk))
#define sk_ASN1_UTF8STRING_is_sorted(sk)
 OPENSSL_sk_is_sorted(ossl_check_const_ASN1_UTF8STRING_sk_type(sk))
#define sk_ASN1_UTF8STRING_dup(sk) ((STACK_OF(ASN1_UTF8STRING)
*)OPENSSL_sk_dup(ossl_check_const_ASN1_UTF8STRING_sk_type(sk)))
#define sk_ASN1_UTF8STRING_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ASN1_UTF8STRING)
*)OPENSSL_sk_deep_copy(ossl_check_const_ASN1_UTF8STRING_sk_type(sk),
ossl_check_ASN1_UTF8STRING_copyfunc_type(copyfunc),
ossl_check_ASN1_UTF8STRING_freefunc_type(freefunc)))
#define sk_ASN1_UTF8STRING_set_cmp_func(sk, cmp)
((sk_ASN1_UTF8STRING_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASN1_UTF8STRING_sk_type(sk
```

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), ossl_check_ASN1_UTF8STRING_compfunc_type(cmp)))


DECLARE_ASN1_FUNCTIONS(ASN1_VISIBLESTRING)
DECLARE_ASN1_FUNCTIONS(ASN1_UNIVERSALSTRING)
DECLARE_ASN1_FUNCTIONS(ASN1_UTF8STRING)
DECLARE_ASN1_FUNCTIONS(ASN1_NULL)
DECLARE_ASN1_FUNCTIONS(ASN1_BMPSTRING)

int UTF8_getc(const unsigned char *str, int len, unsigned long *val);
int UTF8_putc(unsigned char *str, int len, unsigned long value);

SKM_DEFINE_STACK_OF_INTERNAL(ASN1_GENERALSTRING,
 ASN1_GENERALSTRING, ASN1_GENERALSTRING)
#define sk_ASN1_GENERALSTRING_num(sk)
OPENSSL_sk_num(ossl_check_const_ASN1_GENERALSTRING_sk_type(sk))
#define sk_ASN1_GENERALSTRING_value(sk, idx) ((ASN1_GENERALSTRING
*)OPENSSL_sk_value(ossl_check_const_ASN1_GENERALSTRING_sk_type(sk), (idx)))
#define sk_ASN1_GENERALSTRING_new(cmp) ((STACK_OF(ASN1_GENERALSTRING)
*)OPENSSL_sk_new(ossl_check_ASN1_GENERALSTRING_compfunc_type(cmp)))
#define sk_ASN1_GENERALSTRING_new_null() ((STACK_OF(ASN1_GENERALSTRING)
*)OPENSSL_sk_new_null())
#define sk_ASN1_GENERALSTRING_new_reserve(cmp, n) ((STACK_OF(ASN1_GENERALSTRING)
*)OPENSSL_sk_new_reserve(ossl_check_ASN1_GENERALSTRING_compfunc_type(cmp), (n)))
#define sk_ASN1_GENERALSTRING_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_ASN1_GENERALSTRING_sk_type(sk), (n))
#define sk_ASN1_GENERALSTRING_free(sk)
OPENSSL_sk_free(ossl_check_ASN1_GENERALSTRING_sk_type(sk))
#define sk_ASN1_GENERALSTRING_zero(sk)
OPENSSL_sk_zero(ossl_check_ASN1_GENERALSTRING_sk_type(sk))
#define
 sk_ASN1_GENERALSTRING_delete(sk, i) ((ASN1_GENERALSTRING
*)OPENSSL_sk_delete(ossl_check_ASN1_GENERALSTRING_sk_type(sk), (i)))
#define sk_ASN1_GENERALSTRING_delete_ptr(sk, ptr) ((ASN1_GENERALSTRING
*)OPENSSL_sk_delete_ptr(ossl_check_ASN1_GENERALSTRING_sk_type(sk),
ossl_check_ASN1_GENERALSTRING_type(ptr)))
#define sk_ASN1_GENERALSTRING_push(sk, ptr)
OPENSSL_sk_push(ossl_check_ASN1_GENERALSTRING_sk_type(sk),
ossl_check_ASN1_GENERALSTRING_type(ptr))
#define sk_ASN1_GENERALSTRING_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_ASN1_GENERALSTRING_sk_type(sk),
ossl_check_ASN1_GENERALSTRING_type(ptr))
#define sk_ASN1_GENERALSTRING_pop(sk) ((ASN1_GENERALSTRING
*)OPENSSL_sk_pop(ossl_check_ASN1_GENERALSTRING_sk_type(sk)))
#define sk_ASN1_GENERALSTRING_shift(sk) ((ASN1_GENERALSTRING
*)OPENSSL_sk_shift(ossl_check_ASN1_GENERALSTRING_sk_type(sk)))
#define sk_ASN1_GENERALSTRING_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ASN1_GENERALSTRING_sk_type(sk),ossl_check_ASN1_GENERALSTRI
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NG_freefunc_type(freefunc))
#define
 sk_ASN1_GENERALSTRING_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_ASN1_GENERALSTRING_sk_type(sk),
ossl_check_ASN1_GENERALSTRING_type(ptr), (idx))
#define sk_ASN1_GENERALSTRING_set(sk, idx, ptr) ((ASN1_GENERALSTRING
*)OPENSSL_sk_set(ossl_check_ASN1_GENERALSTRING_sk_type(sk), (idx),
ossl_check_ASN1_GENERALSTRING_type(ptr)))
#define sk_ASN1_GENERALSTRING_find(sk, ptr)
OPENSSL_sk_find(ossl_check_ASN1_GENERALSTRING_sk_type(sk),
ossl_check_ASN1_GENERALSTRING_type(ptr))
#define sk_ASN1_GENERALSTRING_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_ASN1_GENERALSTRING_sk_type(sk),
ossl_check_ASN1_GENERALSTRING_type(ptr))
#define sk_ASN1_GENERALSTRING_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ASN1_GENERALSTRING_sk_type(sk),
ossl_check_ASN1_GENERALSTRING_type(ptr), pnum)
#define sk_ASN1_GENERALSTRING_sort(sk)
OPENSSL_sk_sort(ossl_check_ASN1_GENERALSTRING_sk_type(sk))
#define sk_ASN1_GENERALSTRING_is_sorted(sk)
 OPENSSL_sk_is_sorted(ossl_check_const_ASN1_GENERALSTRING_sk_type(sk))
#define sk_ASN1_GENERALSTRING_dup(sk) ((STACK_OF(ASN1_GENERALSTRING)
*)OPENSSL_sk_dup(ossl_check_const_ASN1_GENERALSTRING_sk_type(sk)))
#define sk_ASN1_GENERALSTRING_deep_copy(sk, copyfunc, freefunc)
((STACK_OF(ASN1_GENERALSTRING)
*)OPENSSL_sk_deep_copy(ossl_check_const_ASN1_GENERALSTRING_sk_type(sk),
ossl_check_ASN1_GENERALSTRING_copyfunc_type(copyfunc),
ossl_check_ASN1_GENERALSTRING_freefunc_type(freefunc)))
#define sk_ASN1_GENERALSTRING_set_cmp_func(sk, cmp)
((sk_ASN1_GENERALSTRING_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASN1_GENERALSTRING
_sk_type(sk), ossl_check_ASN1_GENERALSTRING_compfunc_type(cmp)))


DECLARE_ASN1_FUNCTIONS_name(ASN1_STRING, ASN1_PRINTABLE)

DECLARE_ASN1_FUNCTIONS_name(ASN1_STRING, DIRECTORYSTRING)
DECLARE_ASN1_FUNCTIONS_name(ASN1_STRING, DISPLAYTEXT)
DECLARE_ASN1_FUNCTIONS(ASN1_PRINTABLESTRING)
DECLARE_ASN1_FUNCTIONS(ASN1_T61STRING)
DECLARE_ASN1_FUNCTIONS(ASN1_IA5STRING)
DECLARE_ASN1_FUNCTIONS(ASN1_GENERALSTRING)
DECLARE_ASN1_FUNCTIONS(ASN1_UTCTIME)
DECLARE_ASN1_FUNCTIONS(ASN1_GENERALIZEDTIME)
DECLARE_ASN1_FUNCTIONS(ASN1_TIME)

DECLARE_ASN1_DUP_FUNCTION(ASN1_TIME)
DECLARE_ASN1_DUP_FUNCTION(ASN1_UTCTIME)
DECLARE_ASN1_DUP_FUNCTION(ASN1_GENERALIZEDTIME)
```

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DECLARE_ASN1_ITEM(ASN1_OCTET_STRING_NDEF)

ASN1_TIME
 *ASN1_TIME_set(ASN1_TIME *s, time_t t);
ASN1_TIME *ASN1_TIME_adj(ASN1_TIME *s, time_t t,
                    int offset_day, long offset_sec);
int ASN1_TIME_check(const ASN1_TIME *t);
ASN1_GENERALIZEDTIME *ASN1_TIME_to_generalizedtime(const ASN1_TIME *t,
                                    ASN1_GENERALIZEDTIME **out);
int ASN1_TIME_set_string(ASN1_TIME *s, const char *str);
int ASN1_TIME_set_string_X509(ASN1_TIME *s, const char *str);
int ASN1_TIME_to_tm(const ASN1_TIME *s, struct tm *tm);
int ASN1_TIME_normalize(ASN1_TIME *s);
int ASN1_TIME_cmp_time_t(const ASN1_TIME *s, time_t t);
int ASN1_TIME_compare(const ASN1_TIME *a, const ASN1_TIME *b);

int
 i2a_ASN1_INTEGER(BIO *bp, const ASN1_INTEGER *a);
int a2i_ASN1_INTEGER(BIO *bp, ASN1_INTEGER *bs, char *buf, int size);
int i2a_ASN1_ENUMERATED(BIO *bp, const ASN1_ENUMERATED *a);
int a2i_ASN1_ENUMERATED(BIO *bp, ASN1_ENUMERATED *bs, char *buf, int size);
int i2a_ASN1_OBJECT(BIO *bp, const ASN1_OBJECT *a);
int a2i_ASN1_STRING(BIO *bp, ASN1_STRING *bs, char *buf, int size);
int i2a_ASN1_STRING(BIO *bp, const ASN1_STRING *a, int type);
int i2t_ASN1_OBJECT(char *buf, int buf_len, const ASN1_OBJECT *a);

int a2d_ASN1_OBJECT(unsigned char *out, int olen, const char *buf, int num);
ASN1_OBJECT *ASN1_OBJECT_create(int nid, unsigned char *data, int len,
                         const char *sn, const char *ln);

int ASN1_INTEGER_get_int64(int64_t *pr, const ASN1_INTEGER *a);
int ASN1_INTEGER_set_int64(ASN1_INTEGER *a, int64_t r);
int ASN1_INTEGER_get_uint64(uint64_t *pr, const ASN1_INTEGER *a);
int ASN1_INTEGER_set_uint64(ASN1_INTEGER *a, uint64_t r);

int ASN1_INTEGER_set(ASN1_INTEGER
 *a, long v);
long ASN1_INTEGER_get(const ASN1_INTEGER *a);
ASN1_INTEGER *BN_to_ASN1_INTEGER(const BIGNUM *bn, ASN1_INTEGER *ai);
BIGNUM *ASN1_INTEGER_to_BN(const ASN1_INTEGER *ai, BIGNUM *bn);

int ASN1_ENUMERATED_get_int64(int64_t *pr, const ASN1_ENUMERATED *a);
int ASN1_ENUMERATED_set_int64(ASN1_ENUMERATED *a, int64_t r);


int ASN1_ENUMERATED_set(ASN1_ENUMERATED *a, long v);
long ASN1_ENUMERATED_get(const ASN1_ENUMERATED *a);
```

```
ASN1_ENUMERATED *BN_to_ASN1_ENUMERATED(const BIGNUM *bn, ASN1_ENUMERATED *ai);
BIGNUM *ASN1_ENUMERATED_to_BN(const ASN1_ENUMERATED *ai, BIGNUM *bn);

/* General */
/* given a string, return the correct type, max is the maximum length */
int ASN1_PRINTABLE_type(const unsigned char *s, int max);

unsigned long ASN1_tag2bit(int tag);

/* SPECIALS */
int ASN1_get_object(const unsigned char **pp, long *plength, int *ptag,
                int *pclass, long omax);
int ASN1_check_infinite_end(unsigned char **p, long len);
int ASN1_const_check_infinite_end(const unsigned
 char **p, long len);
void ASN1_put_object(unsigned char **pp, int constructed, int length,
                int tag, int xclass);
int ASN1_put_eoc(unsigned char **pp);
int ASN1_object_size(int constructed, int length, int tag);

/* Used to implement other functions */
void *ASN1_dup(i2d_of_void *i2d, d2i_of_void *d2i, const void *x);

# define ASN1_dup_of(type,i2d,d2i,x) \
   ((type*)ASN1_dup(CHECKED_I2D_OF(type, i2d), \
                CHECKED_D2I_OF(type, d2i), \
                CHECKED_PTR_OF(const type, x)))

void *ASN1_item_dup(const ASN1_ITEM *it, const void *x);
int ASN1_item_sign_ex(const ASN1_ITEM *it, X509_ALGOR *algor1,
                X509_ALGOR *algor2, ASN1_BIT_STRING *signature,
                const void *data, const ASN1_OCTET_STRING *id,
                EVP_PKEY *pkey, const EVP_MD *md, OSSL_LIB_CTX *libctx,
                const char *propq);
int ASN1_item_verify_ex(const ASN1_ITEM *it, const X509_ALGOR *alg,

           const ASN1_BIT_STRING *signature, const void *data,
                  const ASN1_OCTET_STRING *id, EVP_PKEY *pkey,
                  OSSL_LIB_CTX *libctx, const char *propq);

/* ASN1 alloc/free macros for when a type is only used internally */

# define M_ASN1_new_of(type) (type *)ASN1_item_new(ASN1_ITEM_rptr(type))
# define M_ASN1_free_of(x, type) \
            ASN1_item_free(CHECKED_PTR_OF(type, x), ASN1_ITEM_rptr(type))

# ifndef OPENSSL_NO_STDIO
void *ASN1_d2i_fp(void *(*xnew) (void), d2i_of_void *d2i, FILE *in, void **x);
```

```
#  define ASN1_d2i_fp_of(type,xnew,d2i,in,x) \
   ((type*)ASN1_d2i_fp(CHECKED_NEW_OF(type, xnew), \
                    CHECKED_D2I_OF(type, d2i), \
                    in, \
                    CHECKED_PPTR_OF(type, x)))

void *ASN1_item_d2i_fp_ex(const ASN1_ITEM *it, FILE *in, void *x,
                      OSSL_LIB_CTX *libctx, const char *propq);
void *ASN1_item_d2i_fp(const ASN1_ITEM *it, FILE *in, void *x);
int
 ASN1_i2d_fp(i2d_of_void *i2d, FILE *out, const void *x);

#  define ASN1_i2d_fp_of(type,i2d,out,x) \
   (ASN1_i2d_fp(CHECKED_I2D_OF(type, i2d), \
              out, \
              CHECKED_PTR_OF(const type, x)))

int ASN1_item_i2d_fp(const ASN1_ITEM *it, FILE *out, const void *x);
int ASN1_STRING_print_ex_fp(FILE *fp, const ASN1_STRING *str, unsigned long flags);
# endif

int ASN1_STRING_to_UTF8(unsigned char **out, const ASN1_STRING *in);

void *ASN1_d2i_bio(void *(*xnew) (void), d2i_of_void *d2i, BIO *in, void **x);

#  define ASN1_d2i_bio_of(type,xnew,d2i,in,x) \
   ((type*)ASN1_d2i_bio( CHECKED_NEW_OF(type, xnew), \
                      CHECKED_D2I_OF(type, d2i), \
                      in, \
                      CHECKED_PPTR_OF(type, x)))

void *ASN1_item_d2i_bio_ex(const ASN1_ITEM *it, BIO *in, void *pval,
                       OSSL_LIB_CTX *libctx, const char *propq);
void *ASN1_item_d2i_bio(const ASN1_ITEM *it, BIO *in, void *pval);
int ASN1_i2d_bio(i2d_of_void
 *i2d, BIO *out, const void *x);

#  define ASN1_i2d_bio_of(type,i2d,out,x) \
   (ASN1_i2d_bio(CHECKED_I2D_OF(type, i2d), \
               out, \
               CHECKED_PTR_OF(const type, x)))

int ASN1_item_i2d_bio(const ASN1_ITEM *it, BIO *out, const void *x);
BIO *ASN1_item_i2d_mem_bio(const ASN1_ITEM *it, const ASN1_VALUE *val);
int ASN1_UTCTIME_print(BIO *fp, const ASN1_UTCTIME *a);
int ASN1_GENERALIZEDTIME_print(BIO *fp, const ASN1_GENERALIZEDTIME *a);
int ASN1_TIME_print(BIO *bp, const ASN1_TIME *tm);
```

```
int ASN1_TIME_print_ex(BIO *bp, const ASN1_TIME *tm, unsigned long flags);
int ASN1_STRING_print(BIO *bp, const ASN1_STRING *v);
int ASN1_STRING_print_ex(BIO *out, const ASN1_STRING *str, unsigned long flags);
int ASN1_buf_print(BIO *bp, const unsigned char *buf, size_t buflen, int off);
int ASN1_bn_print(BIO *bp, const char *number, const BIGNUM *num,
              unsigned char *buf, int off);
int ASN1_parse(BIO *bp, const unsigned char *pp, long len, int indent);
int
 ASN1_parse_dump(BIO *bp, const unsigned char *pp, long len, int indent,
                int dump);
const char *ASN1_tag2str(int tag);

/* Used to load and write Netscape format cert */

int ASN1_UNIVERSALSTRING_to_string(ASN1_UNIVERSALSTRING *s);

int ASN1_TYPE_set_octetstring(ASN1_TYPE *a, unsigned char *data, int len);
int ASN1_TYPE_get_octetstring(const ASN1_TYPE *a, unsigned char *data, int max_len);
int ASN1_TYPE_set_int_octetstring(ASN1_TYPE *a, long num,
                          unsigned char *data, int len);
int ASN1_TYPE_get_int_octetstring(const ASN1_TYPE *a, long *num,
                          unsigned char *data, int max_len);

void *ASN1_item_unpack(const ASN1_STRING *oct, const ASN1_ITEM *it);

ASN1_STRING *ASN1_item_pack(void *obj, const ASN1_ITEM *it,
                      ASN1_OCTET_STRING **oct);

void ASN1_STRING_set_default_mask(unsigned long mask);
int ASN1_STRING_set_default_mask_asc(const char *p);
unsigned long ASN1_STRING_get_default_mask(void);
int
 ASN1_mbstring_copy(ASN1_STRING **out, const unsigned char *in, int len,
                  int inform, unsigned long mask);
int ASN1_mbstring_ncopy(ASN1_STRING **out, const unsigned char *in, int len,
                   int inform, unsigned long mask,
                   long minsize, long maxsize);

ASN1_STRING *ASN1_STRING_set_by_NID(ASN1_STRING **out,
                            const unsigned char *in, int inlen,
                            int inform, int nid);
ASN1_STRING_TABLE *ASN1_STRING_TABLE_get(int nid);
int ASN1_STRING_TABLE_add(int, long, long, unsigned long, unsigned long);
void ASN1_STRING_TABLE_cleanup(void);

/* ASN1 template functions */

/* Old API compatible functions */
```

```
ASN1_VALUE *ASN1_item_new(const ASN1_ITEM *it);
ASN1_VALUE *ASN1_item_new_ex(const ASN1_ITEM *it, OSSL_LIB_CTX *libctx,
                             const char *propq);
void ASN1_item_free(ASN1_VALUE *val, const ASN1_ITEM *it);
ASN1_VALUE *ASN1_item_d2i_ex(ASN1_VALUE
 **val, const unsigned char **in,
                             long len, const ASN1_ITEM *it,
                             OSSL_LIB_CTX *libctx, const char *propq);
ASN1_VALUE *ASN1_item_d2i(ASN1_VALUE **val, const unsigned char **in,
                          long len, const ASN1_ITEM *it);
int ASN1_item_i2d(const ASN1_VALUE *val, unsigned char **out, const ASN1_ITEM *it);
int ASN1_item_ndef_i2d(const ASN1_VALUE *val, unsigned char **out,
                       const ASN1_ITEM *it);

void ASN1_add_oid_module(void);
void ASN1_add_stable_module(void);

ASN1_TYPE *ASN1_generate_nconf(const char *str, CONF *nconf);
ASN1_TYPE *ASN1_generate_v3(const char *str, X509V3_CTX *cnf);
int ASN1_str2mask(const char *str, unsigned long *pmask);

/* ASN1 Print flags */

/* Indicate missing OPTIONAL fields */
# define ASN1_PCTX_FLAGS_SHOW_ABSENT            0x001
/* Mark start and end of SEQUENCE */
# define ASN1_PCTX_FLAGS_SHOW_SEQUENCE          0x002
/* Mark start and end
 of SEQUENCE/SET OF */
# define ASN1_PCTX_FLAGS_SHOW_SSOF              0x004
/* Show the ASN1 type of primitives */
# define ASN1_PCTX_FLAGS_SHOW_TYPE              0x008
/* Don't show ASN1 type of ANY */
# define ASN1_PCTX_FLAGS_NO_ANY_TYPE            0x010
/* Don't show ASN1 type of MSTRINGs */
# define ASN1_PCTX_FLAGS_NO_MSTRING_TYPE        0x020
/* Don't show field names in SEQUENCE */
# define ASN1_PCTX_FLAGS_NO_FIELD_NAME          0x040
/* Show structure names of each SEQUENCE field */
# define ASN1_PCTX_FLAGS_SHOW_FIELD_STRUCT_NAME  0x080
/* Don't show structure name even at top level */
# define ASN1_PCTX_FLAGS_NO_STRUCT_NAME         0x100

int ASN1_item_print(BIO *out, const ASN1_VALUE *ifld, int indent,
                    const ASN1_ITEM *it, const ASN1_PCTX *pctx);
ASN1_PCTX *ASN1_PCTX_new(void);
void ASN1_PCTX_free(ASN1_PCTX *p);
unsigned long ASN1_PCTX_get_flags(const ASN1_PCTX *p);
```

```
void ASN1_PCTX_set_flags(ASN1_PCTX *p, unsigned long flags);
unsigned long ASN1_PCTX_get_nm_flags(const
 ASN1_PCTX *p);
void ASN1_PCTX_set_nm_flags(ASN1_PCTX *p, unsigned long flags);
unsigned long ASN1_PCTX_get_cert_flags(const ASN1_PCTX *p);
void ASN1_PCTX_set_cert_flags(ASN1_PCTX *p, unsigned long flags);
unsigned long ASN1_PCTX_get_oid_flags(const ASN1_PCTX *p);
void ASN1_PCTX_set_oid_flags(ASN1_PCTX *p, unsigned long flags);
unsigned long ASN1_PCTX_get_str_flags(const ASN1_PCTX *p);
void ASN1_PCTX_set_str_flags(ASN1_PCTX *p, unsigned long flags);

ASN1_SCTX *ASN1_SCTX_new(int (*scan_cb) (ASN1_SCTX *ctx));
void ASN1_SCTX_free(ASN1_SCTX *p);
const ASN1_ITEM *ASN1_SCTX_get_item(ASN1_SCTX *p);
const ASN1_TEMPLATE *ASN1_SCTX_get_template(ASN1_SCTX *p);
unsigned long ASN1_SCTX_get_flags(ASN1_SCTX *p);
void ASN1_SCTX_set_app_data(ASN1_SCTX *p, void *data);
void *ASN1_SCTX_get_app_data(ASN1_SCTX *p);

const BIO_METHOD *BIO_f_asn1(void);

/* cannot constify val because of CMS_stream() */
BIO *BIO_new_NDEF(BIO *out, ASN1_VALUE *val, const ASN1_ITEM *it);

int i2d_ASN1_bio_stream(BIO
 *out, ASN1_VALUE *val, BIO *in, int flags,
                 const ASN1_ITEM *it);
int PEM_write_bio_ASN1_stream(BIO *out, ASN1_VALUE *val, BIO *in, int flags,
                      const char *hdr, const ASN1_ITEM *it);
/* cannot constify val because of CMS_dataFinal() */
int SMIME_write_ASN1(BIO *bio, ASN1_VALUE *val, BIO *data, int flags,
                int ctype_nid, int econt_nid,
                STACK_OF(X509_ALGOR) *mdalgs, const ASN1_ITEM *it);
int SMIME_write_ASN1_ex(BIO *bio, ASN1_VALUE *val, BIO *data, int flags,
                  int ctype_nid, int econt_nid,
                  STACK_OF(X509_ALGOR) *mdalgs, const ASN1_ITEM *it,
                  OSSL_LIB_CTX *libctx, const char *propq);
ASN1_VALUE *SMIME_read_ASN1(BIO *bio, BIO **bcont, const ASN1_ITEM *it);
ASN1_VALUE *SMIME_read_ASN1_ex(BIO *bio, int flags, BIO **bcont,
                       const ASN1_ITEM *it, ASN1_VALUE **x,
                       OSSL_LIB_CTX
 *libctx, const char *propq);
int SMIME_crlf_copy(BIO *in, BIO *out, int flags);
int SMIME_text(BIO *in, BIO *out);

const ASN1_ITEM *ASN1_ITEM_lookup(const char *name);
const ASN1_ITEM *ASN1_ITEM_get(size_t i);
```

```
/* Legacy compatibility */
# define DECLARE_ASN1_FUNCTIONS_fname(type, itname, name) \
        DECLARE_ASN1_ALLOC_FUNCTIONS_name(type, name) \
        DECLARE_ASN1_ENCODE_FUNCTIONS(type, itname, name)
# define DECLARE_ASN1_FUNCTIONS_const(type) DECLARE_ASN1_FUNCTIONS(type)
# define DECLARE_ASN1_ENCODE_FUNCTIONS_const(type, name) \
        DECLARE_ASN1_ENCODE_FUNCTIONS(type, name)
# define I2D_OF_const(type) I2D_OF(type)
# define ASN1_dup_of_const(type,i2d,d2i,x) ASN1_dup_of(type,i2d,d2i,x)
# define ASN1_i2d_fp_of_const(type,i2d,out,x) ASN1_i2d_fp_of(type,i2d,out,x)
# define ASN1_i2d_bio_of_const(type,i2d,out,x) ASN1_i2d_bio_of(type,i2d,out,x)

# ifdef  __cplusplus
}
# endif
#endif
```

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```
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* Generated by util/mkbuildinf.pl
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* https://www.openssl.org/source/license.html
*/

#define PLATFORM "platform: BSD-x86_64"
#define DATE "built on: Wed Mar  5 20:59:39 2025 UTC"

/*
* Generate compiler_flags as an array of individual characters. This is a
* workaround for the situation where CFLAGS gets too long for a C90 string
* literal
*/
static const char compiler_flags[] = {
   'c','o','m','p','i','l','e','r',':',' ','g','c','c',' ','-','f',
   'P','I','C',' ','-','p','t','h','r','e','a','d',' ','-','W','a',
   ',','-','-','n','o','e','x','e','c','s','t','a','c','k',' ','-',
   'W','a','l','l',' ','-','O','3',' ','-','D','L','_','E','N','D',
   'I','A','N',' ','-','D','O','P','E','N','S','S','L','_','P','I',
    'C',' ','-','D','_','T','H','R','E','A','D','_','S','A','F','E',
   ' ','-','D','_','R','E','E','N','T','R','A','N','T',' ','-','D',
   'O','P','E','N','S','S','L','_','B','U','I','L','D','I','N','G',
   '_','O','P','E','N','S','S','L',' ','-','D','N','D','E','B','U',
   'G','\0'
};
```

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#ifndef V8_COMPILER_TURBOSHAFT_COPYING_PHASE_H_
#define V8_COMPILER_TURBOSHAFT_COPYING_PHASE_H_

```
#include <algorithm>
#include <cstddef>
#include <cstdint>
#include <optional>
#include <utility>

#include "src/base/iterator.h"
#include "src/base/logging.h"
#include "src/base/small-vector.h"
#include "src/base/vector.h"
#include "src/codegen/optimized-compilation-info.h"
#include "src/codegen/source-position.h"
#include "src/compiler/node-origin-table.h"
#include "src/compiler/turboshaft/assembler.h"
#include "src/compiler/turboshaft/graph.h"
#include "src/compiler/turboshaft/index.h"
#include "src/compiler/turboshaft/operations.h"
#include "src/compiler/turboshaft/phase.h"
#include "src/compiler/turboshaft/reducer-traits.h"
#include "src/compiler/turboshaft/representations.h"
#include "src/compiler/turboshaft/snapshot-table.h"
#include
 "src/compiler/turboshaft/variable-reducer.h"
#include "src/zone/zone-containers.h"

namespace v8::internal::compiler::turboshaft {

using MaybeVariable = std::optional<Variable>;

V8_EXPORT_PRIVATE int CountDecimalDigits(uint32_t value);
struct PaddingSpace {
 int spaces;
};
V8_EXPORT_PRIVATE std::ostream& operator<<(std::ostream& os,
                                           PaddingSpace padding);

template <typename Next>
class ReducerBaseForwarder;
template <typename Next>
class WasmRevecReducer;

template <typename Derived, typename Base>
class OutputGraphAssembler : public Base {
#define FRIEND(op) friend struct op##Op;
 TURBOSHAFT_OPERATION_LIST(FRIEND)
#undef FRIEND
 template <size_t I, class D>
```

```
 friend struct FixedArityOperationT;

 OpIndex Map(OpIndex index) { return derived_this()->MapToNewGraph(index); }

 OptionalOpIndex Map(OptionalOpIndex index) {
   return derived_this()->MapToNewGraph(index);
 }

 template <size_t N>
 base::SmallVector<OpIndex,
 N> Map(base::Vector<const OpIndex> indices) {
   return derived_this()->template MapToNewGraph<N>(indices);
 }

public:
#define ASSEMBLE(operation)                                    \
 OpIndex AssembleOutputGraph##operation(const operation##Op& op) { \
   return op.Explode(                                    \
       [a = assembler()](auto... args) {                 \
         return a->Reduce##operation(args...);           \
       },                                                \
       *this);                                           \
 }
 TURBOSHAFT_OPERATION_LIST(ASSEMBLE)
#undef ASSEMBLE

private:
 Derived* derived_this() { return static_cast<Derived*>(this); }
 Assembler<typename Base::ReducerList>* assembler() {
   return &derived_this()->Asm();
 }
};

template <class AfterNext>
class GraphVisitor : public OutputGraphAssembler<GraphVisitor<AfterNext>,
                                                 VariableReducer<AfterNext>>
 {
 template <typename N>
 friend class ReducerBaseForwarder;
 template <typename N>
 friend class WasmRevecReducer;

public:
 using Next = VariableReducer<AfterNext>;
 TURBOSHAFT_REDUCER_BOILERPLATE(CopyingPhase)

 GraphVisitor()
     : input_graph_(Asm().modifiable_input_graph()),
```

```
      current_input_block_(nullptr),
      op_mapping_(Asm().input_graph().op_id_count(), OpIndex::Invalid(),
                  Asm().phase_zone(), &Asm().input_graph()),
      block_mapping_(Asm().input_graph().block_count(), nullptr,
                     Asm().phase_zone()),
      blocks_needing_variables_(Asm().input_graph().block_count(),
                                Asm().phase_zone()),
      old_opindex_to_variables(Asm().input_graph().op_id_count(),
                               Asm().phase_zone(), &Asm().input_graph()),
      blocks_to_clone_(Asm().phase_zone()) {
  Asm().output_graph().Reset();
}

// `trace_reduction` is a template parameter
to avoid paying for tracing at
// runtime.
template <bool trace_reduction>
void VisitGraph() {
  Asm().Analyze();

  // Creating initial old-to-new Block mapping.
  for (Block& input_block : Asm().modifiable_input_graph().blocks()) {
    block_mapping_[input_block.index()] = Asm().output_graph().NewBlock(
        input_block.IsLoop() ? Block::Kind::kLoopHeader : Block::Kind::kMerge,
        &input_block);
  }

  // Visiting the graph.
  VisitAllBlocks<trace_reduction>();

  Finalize();
}

void Bind(Block* block) {
  Next::Bind(block);
  block->SetOrigin(current_input_block());
}

void Finalize() {
  // Updating the source_positions.
  if (!Asm().input_graph().source_positions().empty()) {
    for (OpIndex index : Asm().output_graph().AllOperationIndices()) {
      OpIndex origin = Asm().output_graph().operation_origins()[index];
      Asm().output_graph().source_positions()[index] =
          origin.valid() ? Asm().input_graph().source_positions()[origin]
                         : SourcePosition::Unknown();
    }
  }
```

```
  // Updating the operation origins.
  NodeOriginTable* origins = Asm().data()->node_origins();
  if (origins) {
    for (OpIndex index : Asm().output_graph().AllOperationIndices()) {
      OpIndex origin = Asm().output_graph().operation_origins()[index];
      if (origin.valid()) {
        origins->SetNodeOrigin(index.id(), origin.id());
      }
    }
  }

  input_graph_.SwapWithCompanion();
}

const Block* current_input_block() { return current_input_block_; }

bool* turn_loop_without_backedge_into_merge() {
  return &turn_loop_without_backedge_into_merge_;
}

// Emits a Goto to a cloned version of {input_block}, assuming that the only
// predecessor of this cloned copy will be the current block. {input_block} is
// not cloned right away (because this would recursively call VisitBlockBody,
// which could cause stack overflows), and is instead added to
the
// {blocks_to_clone_} stack, whose blocks will be cloned once the current
// block has been fully visited.
void CloneBlockAndGoto(const Block* input_block) {
  Block* new_block =
      Asm().output_graph().NewBlock(input_block->kind(), input_block);

  // Computing which input of Phi operations to use when visiting
  // {input_block} (since {input_block} doesn't really have predecessors
  // anymore).
  int added_block_phi_input = input_block->GetPredecessorIndex(
      Asm().current_block()->OriginForBlockEnd());

  // There is no guarantees that {input_block} will be entirely removed just
  // because it's cloned/inlined, since it's possible that it has predecessors
  // for which this optimization didn't apply. As a result, we add it to
  // {blocks_needing_variables_}, so that if it's ever generated
  // normally, Variables are used when emitting its content, so that
  // they can later be merged when control flow merges with the current
  //
version of {input_block} that we just cloned.
  blocks_needing_variables_.Add(input_block->index().id());

  Asm().Goto(new_block);
```

```
  blocks_to_clone_.push_back({input_block, added_block_phi_input, new_block});
 }

 // Visits and emits {input_block} right now (ie, in the current block). This
 // should not be called recursively in order to avoid stack overflow (ie,
 // processing {input_block} should never lead to calling CloneAndInlingBlock).
 void CloneAndInlineBlock(const Block* input_block) {
  if (Asm().generating_unreachable_operations()) return;

#ifdef DEBUG
  // Making sure that we didn't call CloneAndInlineBlock recursively.
  DCHECK(!is_in_recursive_inlining_);
  ScopedModification<bool> recursive_guard(&is_in_recursive_inlining_, true);
#endif

  // Computing which input of Phi operations to use when visiting
  // {input_block} (since {input_block} doesn't really have predecessors
  // anymore).
  int added_block_phi_input = input_block->GetPredecessorIndex(
      Asm().current_block()->OriginForBlockEnd());

  // There is no guarantees that {input_block} will be entirely removed just
  // because it's cloned/inlined, since it's possible that it has predecessors
  // for which this optimization didn't apply. As a result, we add it to
  // {blocks_needing_variables_}, so that if it's ever generated
  // normally, Variables are used when emitting its content, so that
  // they can later be merged when control flow merges with the current
  // version of {input_block} that we just cloned.
  blocks_needing_variables_.Add(input_block->index().id());

  ScopedModification<bool> set_true(&current_block_needs_variables_, true);
  VisitBlockBody<CanHavePhis::kYes, ForCloning::kYes, false>(
     input_block, added_block_phi_input);
 }

 // {InlineOp} introduces two limitations unlike {CloneAndInlineBlock}:
 // 1. The input operation must not be emitted anymore as part of its
 // regular input block;
 // 2.
 {InlineOp} must not be used multiple times for the same input op.
 bool InlineOp(OpIndex index, const Block* input_block) {
  return VisitOpAndUpdateMapping<false>(index, input_block);
 }

 template <bool can_be_invalid = false>
 OpIndex MapToNewGraph(OpIndex old_index, int predecessor_index = -1) {
  DCHECK(old_index.valid());
```

```
  OpIndex result = op_mapping_[old_index];

  if (!result.valid()) {
    // {op_mapping} doesn't have a mapping for {old_index}. The
    // VariableReducer should provide the mapping.
    MaybeVariable var = GetVariableFor(old_index);
    if constexpr (can_be_invalid) {
      if (!var.has_value()) {
        return OpIndex::Invalid();
      }
    }
    DCHECK(var.has_value());
    if (predecessor_index == -1) {
      result = Asm().GetVariable(var.value());
    } else {
      result = Asm().GetPredecessorValue(var.value(), predecessor_index);
    }
  }

  DCHECK_IMPLIES(!can_be_invalid, result.valid());
  return result;
 }

template <bool can_be_invalid = false, typename T>
V<T> MapToNewGraph(V<T> old_index, int predecessor_index = -1) {
  return V<T>::Cast(MapToNewGraph(static_cast<OpIndex>(old_index), -1));
}

Block* MapToNewGraph(const Block* block) const {
  Block* new_block = block_mapping_[block->index()];
  DCHECK_NOT_NULL(new_block);
  return new_block;
}

template <typename FunctionType>
OpIndex ResolvePhi(const PhiOp& op, FunctionType&& map,
                   RegisterRepresentation rep) {
  if (op.input_count == 1) {
    // If, in the previous CopyingPhase, a loop header was turned into a
    // regular blocks, its PendingLoopPhis became Phis with a single input. We
    // can now just get rid of these Phis.
    return map(op.input(0), -1);
  }

  OpIndex ig_index = Asm().input_graph().Index(op);
  if (Asm().current_block()->IsLoop()) {
    DCHECK_EQ(op.input_count, 2);
    OpIndex og_index = map(op.input(0), -1);
```

```
    if (ig_index == op.input(PhiOp::kLoopPhiBackEdgeIndex))
  {
      // Avoid emitting a Loop Phi which points to itself, instead
      // emit it's 0'th input.
      return og_index;
    }
    return Asm().PendingLoopPhi(og_index, rep);
  }

  base::Vector<const OpIndex> old_inputs = op.inputs();
  base::SmallVector<OpIndex, 64> new_inputs;
  int predecessor_count = Asm().current_block()->PredecessorCount();
  Block* old_pred = current_input_block_->LastPredecessor();
  Block* new_pred = Asm().current_block()->LastPredecessor();
  // Control predecessors might be missing after the optimization phase. So we
  // need to skip phi inputs that belong to control predecessors that have no
  // equivalent in the new graph.

  // We first assume that the order if the predecessors of the current block
  // did not change. If it did, {new_pred} won't be nullptr at the end of this
  // loop, and we'll instead fall back to the slower code below to compute the
  // inputs of the Phi.

  int predecessor_index = predecessor_count - 1;
  for (OpIndex input : base::Reversed(old_inputs)) {
    if (new_pred && new_pred->OriginForBlockEnd() == old_pred) {
      // Phis inputs have to come from predecessors. We thus have to
      // MapToNewGraph with {predecessor_index} so that we get an OpIndex that
      // is from a predecessor rather than one that comes from a Variable
      // merged in the current block.
      new_inputs.push_back(map(input, predecessor_index));
      new_pred = new_pred->NeighboringPredecessor();
      predecessor_index--;
    }
    old_pred = old_pred->NeighboringPredecessor();
  }
  DCHECK_IMPLIES(new_pred == nullptr, old_pred == nullptr);

  if (new_pred != nullptr) {
    // If {new_pred} is not nullptr, then the order of the predecessors
    // changed. This should only happen with blocks that were introduced in
    // the previous graph. For instance, consider this (partial) dominator
    // tree:
    //

  //      7
    //      8
    //      10
```

```
    //      9
    //      11
    //
    // Where the predecessors of block 11 are blocks 9 and 10 (in that order).
    // In dominator visit order, block 10 will be visited before block 9.
    // Since blocks are added to predecessors when the predecessors are
    // visited, it means that in the new graph, the predecessors of block 11
    // are [10, 9] rather than [9, 10].
    // To account for this, we reorder the inputs of the Phi, and get rid of
    // inputs from blocks that vanished.

#ifdef DEBUG
    // To check that indices are set properly, we zap them in debug builds.
    for (auto& block : Asm().modifiable_input_graph().blocks()) {
      block.clear_custom_data();
    }
#endif
    uint32_t pos = current_input_block_->PredecessorCount() - 1;
    for (old_pred = current_input_block_->LastPredecessor();
         old_pred != nullptr; old_pred = old_pred->NeighboringPredecessor()) {
      // Store
 the current index of the {old_pred}.
      old_pred->set_custom_data(pos--, Block::CustomDataKind::kPhiInputIndex);
    }

    // Filling {new_inputs}: we iterate the new predecessors, and, for each
    // predecessor, we check the index of the input corresponding to the old
    // predecessor, and we put it next in {new_inputs}.
    new_inputs.clear();
    int predecessor_index = predecessor_count - 1;
    for (new_pred = Asm().current_block()->LastPredecessor();
         new_pred != nullptr; new_pred = new_pred->NeighboringPredecessor()) {
      const Block* origin = new_pred->OriginForBlockEnd();
      DCHECK_NOT_NULL(origin);
      OpIndex input = old_inputs[origin->get_custom_data(
          Block::CustomDataKind::kPhiInputIndex)];
      // Phis inputs have to come from predecessors. We thus have to
      // MapToNewGraph with {predecessor_index} so that we get an OpIndex that
      // is from a predecessor rather than one that comes from a Variable
       // merged in the current block.
      new_inputs.push_back(map(input, predecessor_index));
      predecessor_index--;
    }
  }

  DCHECK_EQ(new_inputs.size(), Asm().current_block()->PredecessorCount());

  if (new_inputs.size() == 1) {
```

```
    // This Operation used to be a Phi in a Merge, but since one (or more) of
    // the inputs of the merge have been removed, there is no need for a Phi
    // anymore.
    return new_inputs[0];
  }

  std::reverse(new_inputs.begin(), new_inputs.end());
  return Asm().ReducePhi(base::VectorOf(new_inputs), rep);
}

// The block from the input graph that corresponds to the current block as a
// branch destination. Such a block might not exist, and this function uses a
// trick to compute such a block in almost all cases, but might rarely fail
// and return `nullptr` instead.
const Block* OriginForBlockStart(Block* block) const {
  // Check that `block->origin_` is still valid as a block start and was not
   // changed to a semantically different block when inlining blocks.
  const Block* origin = block->origin_;
  if (origin && MapToNewGraph(origin) == block) return origin;
  return nullptr;
}

// Clone all of the blocks in {sub_graph} (which should be Blocks of the input
// graph). If `keep_loop_kinds` is true, the loop headers are preserved, and
// otherwise they are marked as Merge. An initial GotoOp jumping to the 1st
// block of `sub_graph` is always emitted. The output Block corresponding to
// the 1st block of `sub_graph` is returned.
template <class Set>
Block* CloneSubGraph(Set sub_graph, bool keep_loop_kinds,
                     bool is_loop_after_peeling = false) {
  // The BlockIndex of the blocks of `sub_graph` should be sorted so that
  // visiting them in order is correct (all of the predecessors of a block
  // should always be visited before the block itself).
  DCHECK(std::is_sorted(sub_graph.begin(), sub_graph.end(),

           [](const Block* a, const Block* b) {
                      return a->index().id() <= b->index().id();
                    }));

  // 1. Create new blocks, and update old->new mapping. This is required to
  // emit multiple times the blocks of {sub_graph}: if a block `B1` in
  // {sub_graph} ends with a Branch/Goto to a block `B2` that is also in
  // {sub_graph}, then this Branch/Goto should go to the version of `B2` that
  // this CloneSubGraph will insert, rather than to a version inserted by a
  // previous call to CloneSubGraph or the version that the regular
  // VisitAllBlock function will emit.
  ZoneVector<Block*> old_mappings(sub_graph.size(), Asm().phase_zone());
  for (auto&& [input_block, old_mapping] :
```

```
      base::zip(sub_graph, old_mappings)) {
    old_mapping = block_mapping_[input_block->index()];
    Block::Kind kind = keep_loop_kinds && input_block->IsLoop()
                        ? Block::Kind::kLoopHeader

                      : Block::Kind::kMerge;
    block_mapping_[input_block->index()] =
        Asm().output_graph().NewBlock(kind, input_block);
  }

  // 2. Visit block in correct order (begin to end)

  // Emit a goto to 1st block.
  Block* start = block_mapping_[(*sub_graph.begin())->index()];
#ifdef DEBUG
  if (is_loop_after_peeling) start->set_has_peeled_iteration();
#endif
  Asm().Goto(start);
  // Visiting `sub_graph`.
  for (const Block* block : sub_graph) {
    blocks_needing_variables_.Add(block->index().id());
    VisitBlock<false>(block);
    ProcessWaitingCloningAndInlining<false>();
  }

  // 3. Restore initial old->new mapping
  for (auto&& [input_block, old_mapping] :
      base::zip(sub_graph, old_mappings)) {
    block_mapping_[input_block->index()] = old_mapping;
  }

  return start;
}

template <bool can_be_invalid = false>
OptionalOpIndex MapToNewGraph(OptionalOpIndex old_index,
                              int predecessor_index
= -1) {
  if (!old_index.has_value()) return OptionalOpIndex::Nullopt();
  return MapToNewGraph<can_be_invalid>(old_index.value(), predecessor_index);
}

template <size_t expected_size>
base::SmallVector<OpIndex, expected_size> MapToNewGraph(
    base::Vector<const OpIndex> inputs) {
  base::SmallVector<OpIndex, expected_size> result;
  for (OpIndex input : inputs) {
    result.push_back(MapToNewGraph(input));
```

```
  }
  return result;
 }

private:
 template <bool trace_reduction>
 void VisitAllBlocks() {
  base::SmallVector<const Block*, 128> visit_stack;

  visit_stack.push_back(&Asm().input_graph().StartBlock());
  while (!visit_stack.empty()) {
    const Block* block = visit_stack.back();
    visit_stack.pop_back();
    VisitBlock<trace_reduction>(block);
    ProcessWaitingCloningAndInlining<trace_reduction>();

    for (Block* child = block->LastChild(); child != nullptr;
         child = child->NeighboringChild()) {
      visit_stack.push_back(child);
     }
  }
 }

 template <bool trace_reduction>
 void VisitBlock(const Block* input_block) {
  Asm().SetCurrentOrigin(OpIndex::Invalid());
  current_block_needs_variables_ =
      blocks_needing_variables_.Contains(input_block->index().id());
  if constexpr (trace_reduction) {
    std::cout << "\nold " << PrintAsBlockHeader{*input_block} << "\n";
    std::cout << "new "
              << PrintAsBlockHeader{*MapToNewGraph(input_block),
                                    Asm().output_graph().next_block_index()}
              << "\n";
  }
  Block* new_block = MapToNewGraph(input_block);
  if (Asm().Bind(new_block)) {
    VisitBlockBody<CanHavePhis::kYes, ForCloning::kNo, trace_reduction>(
        input_block);
    if constexpr (trace_reduction) TraceBlockFinished();
  } else {
    if constexpr (trace_reduction) TraceBlockUnreachable();
  }

  // If we eliminate a loop backedge, we need to turn the loop into a
  // single-predecessor
 merge block.
  if (!turn_loop_without_backedge_into_merge_) return;
```

```
  const Operation& last_op = input_block->LastOperation(Asm().input_graph());
  if (auto* final_goto = last_op.TryCast<GotoOp>()) {
    if (final_goto->destination->IsLoop()) {
      if (input_block->index() >= final_goto->destination->index()) {
        Asm().FinalizeLoop(MapToNewGraph(final_goto->destination));
      } else {
        // We have a forward jump to a loop, rather than a backedge. We
        // don't need to do anything.
      }
    }
  }
}

enum class CanHavePhis { kNo, kYes };
enum class ForCloning { kNo, kYes };

template <CanHavePhis can_have_phis, ForCloning for_cloning,
          bool trace_reduction>
void VisitBlockBody(const Block* input_block,
                    int added_block_phi_input = -1) {
  DCHECK_NOT_NULL(Asm().current_block());
  current_input_block_ = input_block;

  // Phis could be mutually recursive, for instance (in a loop
header):
  //
  //     p1 = phi(a, p2)
  //     p2 = phi(b, p1)
  //
  // In this case, if we are currently unrolling the loop and visiting this
  // loop header that is now part of the loop body, then if we visit Phis
  // and emit new mapping (with CreateOldToNewMapping) as we go along, we
  // would visit p1 and emit a mapping saying "p1 = p2", and use this
  // mapping when visiting p2, then we'd map p2 to p2 instead of p1. To
  // overcome this issue, we first visit the Phis of the loop, emit the new
  // phis, and record the new mapping in a side-table ({new_phi_values}).
  // Then, we visit all of the operations of the loop and commit the new
  // mappings: phis were emitted before using the old mapping, and all of
  // the other operations will use the new mapping (as they should).
  //
  // Note that Phis are not always at the begining of blocks, but when they
  // aren't, they can't have inputs from the current block (except on their

// backedge for loop phis, but they start as PendingLoopPhis without
  // backedge input), so visiting all Phis first is safe.

  // Visiting Phis and collecting their new OpIndices.
  base::SmallVector<OpIndex, 64> new_phi_values;
```

```
  if constexpr (can_have_phis == CanHavePhis::kYes) {
    for (OpIndex index : Asm().input_graph().OperationIndices(*input_block)) {
      if (ShouldSkipOperation(Asm().input_graph().Get(index))) continue;
      DCHECK_NOT_NULL(Asm().current_block());
      if (Asm().input_graph().Get(index).template Is<PhiOp>()) {
        OpIndex new_index;
        if constexpr (for_cloning == ForCloning::kYes) {
          // When cloning a block, it only has a single predecessor, and Phis
          // should therefore be removed and be replaced by the input
          // corresponding to this predecessor.
          DCHECK_NE(added_block_phi_input, -1);
          // This Phi has been cloned/inlined, and has thus now a single
          // predecessor,
and shouldn't be a Phi anymore.
          new_index = MapToNewGraph(
              Asm().input_graph().Get(index).input(added_block_phi_input));
        } else {
          new_index =
              VisitOpNoMappingUpdate<trace_reduction>(index, input_block);
        }
        new_phi_values.push_back(new_index);
        if (!Asm().current_block()) {
          // A reducer has detected, based on the Phis of the block that were
          // visited so far, that we are in unreachable code (or, less likely,
          // decided, based on some Phis only, to jump away from this block?).
          return;
        }
      }
    }
  }
  DCHECK_NOT_NULL(Asm().current_block());

  // Visiting everything, updating Phi mappings, and emitting non-phi
  // operations.
  int phi_num = 0;
  bool stopped_early = false;
  for (OpIndex index : base::IterateWithoutLast(
           Asm().input_graph().OperationIndices(*input_block))) {
    if (ShouldSkipOperation(Asm().input_graph().Get(index)))
continue;
    const Operation& op = Asm().input_graph().Get(index);
    if constexpr (can_have_phis == CanHavePhis::kYes) {
      if (op.Is<PhiOp>()) {
        CreateOldToNewMapping(index, new_phi_values[phi_num++]);
        continue;
      }
    }
    // Blocks with a single predecessor (for which CanHavePhis might be kNo)
```

```
    // can still have phis if they used to be loop header that were turned
    // into regular blocks.
    DCHECK_IMPLIES(op.Is<PhiOp>(), op.input_count == 1);

    if (!VisitOpAndUpdateMapping<trace_reduction>(index, input_block)) {
      stopped_early = true;
      break;
    }
  }
  // If the last operation of the loop above (= the one-before-last operation
  // of the block) was lowered to an unconditional deopt/trap/something like
  // that, then current_block will now be null, and there is no need visit the
  // last operation of the block.
  if (stopped_early || Asm().current_block()
== nullptr) return;

  // The final operation (which should be a block terminator) of the block
  // is processed separately, because if it's a Goto to a block with a
  // single predecessor, we'll inline it. (we could have had a check `if (op
  // is a Goto)` in the loop above, but since this can only be true for the
  // last operation, we instead extracted it here to make things faster).
  const Operation& terminator =
      input_block->LastOperation(Asm().input_graph());
  DCHECK(terminator.IsBlockTerminator());
  VisitBlockTerminator<trace_reduction>(terminator, input_block);
}

template <bool trace_reduction>
bool VisitOpAndUpdateMapping(OpIndex index, const Block* input_block) {
  if (Asm().current_block() == nullptr) return false;
  OpIndex new_index =
      VisitOpNoMappingUpdate<trace_reduction>(index, input_block);
  const Operation& op = Asm().input_graph().Get(index);
  if (CanBeUsedAsInput(op) && new_index.valid()) {
    CreateOldToNewMapping(index,
new_index);
  }
  return true;
}

template <bool trace_reduction>
OpIndex VisitOpNoMappingUpdate(OpIndex index, const Block* input_block) {
  Block* current_block = Asm().current_block();
  DCHECK_NOT_NULL(current_block);
  Asm().SetCurrentOrigin(index);
  current_block->SetOrigin(input_block);
  OpIndex first_output_index = Asm().output_graph().next_operation_index();
  USE(first_output_index);
```

```
  const Operation& op = Asm().input_graph().Get(index);
  if constexpr (trace_reduction) TraceReductionStart(index);
  if (ShouldSkipOperation(op)) {
    if constexpr (trace_reduction) TraceOperationSkipped();
    return OpIndex::Invalid();
  }
  OpIndex new_index;
  switch (op.opcode) {
#define EMIT_INSTR_CASE(Name)                                    \
 case Opcode::k##Name:                                           \
  if (MayThrow(Opcode::k##Name)) return OpIndex::Invalid();      \
  new_index = Asm().ReduceInputGraph##Name(index,
 op.Cast<Name##Op>()); \
  break;
    TURBOSHAFT_OPERATION_LIST(EMIT_INSTR_CASE)
#undef EMIT_INSTR_CASE
  }
  if constexpr (trace_reduction) {
    if (CanBeUsedAsInput(op) && !new_index.valid()) {
      TraceOperationSkipped();
    } else {
      TraceReductionResult(current_block, first_output_index, new_index);
    }
  }
#ifdef DEBUG
  DCHECK_IMPLIES(new_index.valid(),
                 Asm().output_graph().BelongsToThisGraph(new_index));
  if (V8_UNLIKELY(v8_flags.turboshaft_verify_reductions)) {
    if (new_index.valid()) {
      const Operation& new_op = Asm().output_graph().Get(new_index);
      if (!new_op.Is<TupleOp>()) {
        // Checking that the outputs_rep of the new operation are the same as
        // the old operation. (except for tuples, since they don't have
        // outputs_rep)
        DCHECK_EQ(new_op.outputs_rep().size(), op.outputs_rep().size());
        for (size_t i = 0; i < new_op.outputs_rep().size();
 ++i) {
          DCHECK(new_op.outputs_rep()[i].AllowImplicitRepresentationChangeTo(
              op.outputs_rep()[i],
              Asm().output_graph().IsCreatedFromTurbofan()));
        }
      }
      Asm().Verify(index, new_index);
    }
  }
#endif  // DEBUG
  return new_index;
 }
```

```
template <bool trace_reduction>
void VisitBlockTerminator(const Operation& terminator,
                          const Block* input_block) {
  if (Asm().CanAutoInlineBlocksWithSinglePredecessor() &&
      terminator.Is<GotoOp>()) {
    Block* destination = terminator.Cast<GotoOp>().destination;
    if (destination->PredecessorCount() == 1) {
      block_to_inline_now_ = destination;
      return;
    }
  }
  // Just going through the regular VisitOp function.
  OpIndex index = Asm().input_graph().Index(terminator);
  VisitOpAndUpdateMapping<trace_reduction>(index, input_block);
}

template <bool trace_reduction>
void ProcessWaitingCloningAndInlining()
{
  InlineWaitingBlock<trace_reduction>();
  while (!blocks_to_clone_.empty()) {
    BlockToClone item = blocks_to_clone_.back();
    blocks_to_clone_.pop_back();
    DoCloneBlock<trace_reduction>(
        item.input_block, item.added_block_phi_input, item.new_output_block);
    InlineWaitingBlock<trace_reduction>();
  }
}

template <bool trace_reduction>
void InlineWaitingBlock() {
  while (block_to_inline_now_) {
    Block* input_block = block_to_inline_now_;
    block_to_inline_now_ = nullptr;
    ScopedModification<bool> set_true(&current_block_needs_variables_, true);
    if constexpr (trace_reduction) {
      std::cout << "Inlining " << PrintAsBlockHeader{*input_block} << "\n";
    }
    VisitBlockBody<CanHavePhis::kNo, ForCloning::kNo, trace_reduction>(
        input_block);
  }
}

template <bool trace_reduction>
void DoCloneBlock(const Block* input_block, int added_block_phi_input,
                  Block* output_block)
```

```
{
  DCHECK_EQ(output_block->PredecessorCount(), 1);
  if constexpr (trace_reduction) {
    std::cout << "\nCloning old " << PrintAsBlockHeader{*input_block} << "\n";
    std::cout << "As new "
              << PrintAsBlockHeader{*output_block,
                                    Asm().output_graph().next_block_index()}
              << "\n";
  }

  ScopedModification<bool> set_true(&current_block_needs_variables_, true);

  Asm().BindReachable(output_block);
  VisitBlockBody<CanHavePhis::kYes, ForCloning::kYes, trace_reduction>(
      input_block, added_block_phi_input);

  if constexpr (trace_reduction) TraceBlockFinished();
}

void TraceReductionStart(OpIndex index) {
  std::cout << " o" << index.id() << ": "
            << PaddingSpace{5 - CountDecimalDigits(index.id())}
            << OperationPrintStyle{Asm().input_graph().Get(index), "#o"}
            << "\n";
}
void TraceOperationSkipped() { std::cout << "> skipped\n\n"; }
void
TraceBlockUnreachable() { std::cout << "> unreachable\n\n"; }
void TraceReductionResult(Block* current_block, OpIndex first_output_index,
                          OpIndex new_index) {
  if (new_index < first_output_index) {
    // The operation was replaced with an already existing one.
    std::cout << "> #n" << new_index.id() << "\n";
  }
  bool before_arrow = new_index >= first_output_index;
  for (const Operation& op : Asm().output_graph().operations(
           first_output_index, Asm().output_graph().next_operation_index())) {
    OpIndex index = Asm().output_graph().Index(op);
    const char* prefix;
    if (index == new_index) {
      prefix = ">";
      before_arrow = false;
    } else if (before_arrow) {
      prefix = "  ";
    } else {
      prefix = "   ";
    }
    std::cout << prefix << " n" << index.id() << ": "
```

```
            << PaddingSpace{5 - CountDecimalDigits(index.id())}
            << OperationPrintStyle{Asm().output_graph().Get(index),
"#n"}
            << "\n";
    if (op.IsBlockTerminator() && Asm().current_block() &&
        Asm().current_block() != current_block) {
      current_block = &Asm().output_graph().Get(
          BlockIndex(current_block->index().id() + 1));
      std::cout << "new " << PrintAsBlockHeader{*current_block} << "\n";
    }
  }
  std::cout << "\n";
}
void TraceBlockFinished() { std::cout << "\n"; }

// These functions take an operation from the old graph and use the assembler
// to emit a corresponding operation in the new graph, translating inputs and
// blocks accordingly.
V8_INLINE OpIndex AssembleOutputGraphGoto(const GotoOp& op) {
  Block* destination = MapToNewGraph(op.destination);
  if (op.is_backedge) {
    DCHECK(destination->IsBound());
    DCHECK(destination->IsLoop());
    FixLoopPhis(op.destination);
  }
  // It is important that we first fix loop phis and then reduce the `Goto`,
  // because reducing the
`Goto` can have side effects, in particular, it can
  // modify affect the SnapshotTable of `VariableReducer`, which is also used
  // by `FixLoopPhis()`.
  Asm().ReduceGoto(destination, op.is_backedge);
  return OpIndex::Invalid();
}
V8_INLINE OpIndex AssembleOutputGraphBranch(const BranchOp& op) {
  Block* if_true = MapToNewGraph(op.if_true);
  Block* if_false = MapToNewGraph(op.if_false);
  return Asm().ReduceBranch(MapToNewGraph(op.condition()), if_true, if_false,
                            op.hint);
}
OpIndex AssembleOutputGraphSwitch(const SwitchOp& op) {
  base::SmallVector<SwitchOp::Case, 16> cases;
  for (SwitchOp::Case c : op.cases) {
    cases.emplace_back(c.value, MapToNewGraph(c.destination), c.hint);
  }
  return Asm().ReduceSwitch(
      MapToNewGraph(op.input()),
      Asm().graph_zone()->CloneVector(base::VectorOf(cases)),
      MapToNewGraph(op.default_case), op.default_hint);
```

```
  }
  OpIndex AssembleOutputGraphPhi(const PhiOp& op)
  {
    return ResolvePhi(
        op,
        [this](OpIndex ind, int predecessor_index) {
          return MapToNewGraph(ind, predecessor_index);
        },
        op.rep);
  }
  OpIndex AssembleOutputGraphPendingLoopPhi(const PendingLoopPhiOp& op) {
    UNREACHABLE();
  }
  V8_INLINE OpIndex AssembleOutputGraphFrameState(const FrameStateOp& op) {
    auto inputs = MapToNewGraph<32>(op.inputs());
    return Asm().ReduceFrameState(base::VectorOf(inputs), op.inlined, op.data);
  }
  OpIndex AssembleOutputGraphCall(const CallOp& op) {
    OpIndex callee = MapToNewGraph(op.callee());
    OptionalOpIndex frame_state = MapToNewGraph(op.frame_state());
    auto arguments = MapToNewGraph<16>(op.arguments());
    return Asm().ReduceCall(callee, frame_state, base::VectorOf(arguments),
                            op.descriptor, op.Effects());
  }
  OpIndex AssembleOutputGraphDidntThrow(const DidntThrowOp& op) {
    const Operation& throwing_operation =
        Asm().input_graph().Get(op.throwing_operation());
     OpIndex result;
    switch (throwing_operation.opcode) {
#define CASE(Name)                                          \
  case Opcode::k##Name:                                     \
    result = Asm().ReduceInputGraph##Name(                          \
        op.throwing_operation(), throwing_operation.Cast<Name##Op>()); \
    break;
      TURBOSHAFT_THROWING_OPERATIONS_LIST(CASE)
#undef CASE
      default:
        UNREACHABLE();
    }
    return result;
  }

  V<None> AssembleOutputGraphCheckException(const CheckExceptionOp& op) {
    Graph::OpIndexIterator it(op.didnt_throw_block->begin(),
                              &Asm().input_graph());
    Graph::OpIndexIterator end(op.didnt_throw_block->end(),
                               &Asm().input_graph());
    // To translate `CheckException` to the new graph, we reduce the throwing
```

```
  // operation (actually it's `DidntThrow` operation, but that triggers the
  // actual reduction) with a
catch scope. If the reduction replaces the
  // throwing operation with other throwing operations, all of them will be
  // connected to the provided catch block. The reduction should automatically
  // bind a block that represents non-throwing control flow of the original
  // operation, so we can inline the rest of the `didnt_throw` block.
  {
    CatchScope scope(Asm(), MapToNewGraph(op.catch_block));
    DCHECK(Asm().input_graph().Get(*it).template Is<DidntThrowOp>());
    if (!Asm().InlineOp(*it, op.didnt_throw_block)) {
      return V<None>::Invalid();
    }
    ++it;
  }
  for (; it != end; ++it) {
    // Using `InlineOp` requires that the inlined operation is not emitted
    // multiple times. This is the case here because we just removed the
    // single predecessor of `didnt_throw_block`.
    if (!Asm().InlineOp(*it, op.didnt_throw_block)) {
      break;
    }
  }
  return V<None>::Invalid();
}

void CreateOldToNewMapping(OpIndex
old_index, OpIndex new_index) {
  DCHECK(old_index.valid());
  DCHECK(Asm().input_graph().BelongsToThisGraph(old_index));
  DCHECK_IMPLIES(new_index.valid(),
                 Asm().output_graph().BelongsToThisGraph(new_index));

  if (current_block_needs_variables_) {
    MaybeVariable var = GetVariableFor(old_index);
    if (!var.has_value()) {
      MaybeRegisterRepresentation rep =
          Asm().input_graph().Get(old_index).outputs_rep().size() == 1
              ? static_cast<const MaybeRegisterRepresentation&>(
                    Asm().input_graph().Get(old_index).outputs_rep()[0])
              : MaybeRegisterRepresentation::None();
      var = Asm().NewLoopInvariantVariable(rep);
      SetVariableFor(old_index, *var);
    }
    Asm().SetVariable(*var, new_index);
    return;
  }
```

```
  DCHECK(!op_mapping_[old_index].valid());
  op_mapping_[old_index] = new_index;
}

MaybeVariable GetVariableFor(OpIndex old_index) const {
  return old_opindex_to_variables[old_index];
 }

void SetVariableFor(OpIndex old_index, MaybeVariable var) {
  DCHECK(!old_opindex_to_variables[old_index].has_value());
  old_opindex_to_variables[old_index] = var;
}

void FixLoopPhis(Block* input_graph_loop) {
  DCHECK(input_graph_loop->IsLoop());
  Block* output_graph_loop = MapToNewGraph(input_graph_loop);
  DCHECK(output_graph_loop->IsLoop());
  for (const Operation& op : Asm().input_graph().operations(
          input_graph_loop->begin(), input_graph_loop->end())) {
    if (auto* input_phi = op.TryCast<PhiOp>()) {
      OpIndex phi_index =
          MapToNewGraph<true>(Asm().input_graph().Index(*input_phi));
      if (!phi_index.valid() || !output_graph_loop->Contains(phi_index)) {
        // Unused phis are skipped, so they are not be mapped to anything in
        // the new graph. If the phi is reduced to an operation from a
        // different block, then there is no loop phi in the current loop

   // header to take care of.
        continue;
      }
      Asm().FixLoopPhi(*input_phi, phi_index, output_graph_loop);
    }
  }
}

Graph& input_graph_;

const Block* current_input_block_;

// Mappings from old OpIndices to new OpIndices.
FixedOpIndexSidetable<OpIndex> op_mapping_;

// Mappings from old blocks to new blocks.
FixedBlockSidetable<Block*> block_mapping_;

// {current_block_needs_variables_} is set to true if the current block should
// use Variables to map old to new OpIndex rather than just {op_mapping}. This
// is typically the case when the block has been cloned.
```

```
 bool current_block_needs_variables_ = false;

 // When {turn_loop_without_backedge_into_merge_} is true (the default), when
 // processing an input block that ended with a loop backedge but doesn't
 // anymore, the loop header is turned into a regular merge. This can be turned
 // off when unrolling a loop for instance.
 bool turn_loop_without_backedge_into_merge_ = true;

  // Set of Blocks for which Variables should be used rather than
 // {op_mapping}.
 BitVector blocks_needing_variables_;

 // Mapping from old OpIndex to Variables.
 FixedOpIndexSidetable<MaybeVariable> old_opindex_to_variables;

 // When the last operation of a Block is a Goto to a Block with a single
 // predecessor, we always inline the destination into the current block. To
 // avoid making this process recursive (which could lead to stack overflows),
 // we set the variable {block_to_inline_now_} instead. Right after we're done
 // visiting a Block, the function ProcessWaitingCloningAndInlining will inline
 // {block_to_inline_now_} (if it's set) in a non-recursive way.
 Block* block_to_inline_now_ = nullptr;

 // When a Reducer wants to clone a block (for instance,
 // BranchEliminationReducer, in order to remove Phis or to replace a Branch by
 // a Goto), this block is not cloned right away, in order to avoid recursion
 // (which could lead to stack overflows).
 Instead, we add this block to
 // {blocks_to_clone_}. Right after we're done visiting a Block, the function
 // ProcessWaitingCloningAndInlining will actually clone the blocks in
 // {blocks_to_clone_} in a non-recursive way.
 struct BlockToClone {
   const Block* input_block;
   int added_block_phi_input;
   Block* new_output_block;
 };
 ZoneVector<BlockToClone> blocks_to_clone_;

#ifdef DEBUG
 // Recursively inlining blocks is still allowed (mainly for
 // LoopUnrollingReducer), but it shouldn't be actually recursive. This is
 // checked by the {is_in_recursive_inlining_}, which is set to true while
 // recursively inlining a block. Trying to inline a block while
 // {is_in_recursive_inlining_} is true will lead to a DCHECK failure.
 bool is_in_recursive_inlining_ = false;
#endif
 };
```

```
template <template <class> class... Reducers>
class TSAssembler;

template <template <class> class... Reducers>
class CopyingPhaseImpl {
public:
 static void Run(PipelineData* data, Graph&
 input_graph, Zone* phase_zone,
                bool trace_reductions = false) {
   TSAssembler<GraphVisitor, Reducers...> phase(
       data, input_graph, input_graph.GetOrCreateCompanion(), phase_zone);
#ifdef DEBUG
   if (trace_reductions) {
     phase.template VisitGraph<true>();
   } else {
     phase.template VisitGraph<false>();
   }
#else
   phase.template VisitGraph<false>();
#endif  // DEBUG
 }
};

template <template <typename> typename... Reducers>
class CopyingPhase {
public:
 static void Run(PipelineData* data, Zone* phase_zone) {
   Graph& input_graph = data->graph();
   CopyingPhaseImpl<Reducers...>::Run(
       data, input_graph, phase_zone,
       data->info()->turboshaft_trace_reduction());
 }
};

}  // namespace v8::internal::compiler::turboshaft

#endif  // V8_COMPILER_TURBOSHAFT_COPYING_PHASE_H_
/* WARNING: do not edit! */
/* Generated by Makefile from include/crypto/bn_conf.h.in */
/*
* Copyright 2016-2021 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the Apache License 2.0 (the "License").  You may not use
* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/
```

```
#ifndef OSSL_CRYPTO_BN_CONF_H
# define OSSL_CRYPTO_BN_CONF_H
# pragma once

/*
* The contents of this file are not used in the UEFI build, as
* both 32-bit and 64-bit builds are supported from a single run
* of the Configure script.
*/

/* Should we define BN_DIV2W here? */

/* Only one for the following should be defined */
#undef SIXTY_FOUR_BIT_LONG
#undef SIXTY_FOUR_BIT
#define THIRTY_TWO_BIT

#endif
/*
* WARNING: do not edit!
* Generated by Makefile from providers/common/include/prov/der_rsa.h.in
*
* Copyright 2020-2021 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the Apache License 2.0 (the "License").  You may not use
* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#include "crypto/rsa.h"
#include "internal/der.h"

/* Well known OIDs precompiled */

/*
* hashAlgs OBJECT IDENTIFIER ::= { nistAlgorithms 2 }
*/
#define DER_OID_V_hashAlgs DER_P_OBJECT, 8, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04, 0x02
#define DER_OID_SZ_hashAlgs 10
extern const unsigned char ossl_der_oid_hashAlgs[DER_OID_SZ_hashAlgs];

/*
* rsaEncryption    OBJECT IDENTIFIER ::= { pkcs-1 1 }
*/
#define DER_OID_V_rsaEncryption DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01, 0x01, 0x01
#define DER_OID_SZ_rsaEncryption 11
extern const unsigned
```

```
 char ossl_der_oid_rsaEncryption[DER_OID_SZ_rsaEncryption];

/*
* id-RSAES-OAEP    OBJECT IDENTIFIER ::= { pkcs-1 7 }
*/
#define DER_OID_V_id_RSAES_OAEP DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01, 0x01,
0x07
#define DER_OID_SZ_id_RSAES_OAEP 11
extern const unsigned char ossl_der_oid_id_RSAES_OAEP[DER_OID_SZ_id_RSAES_OAEP];

/*
* id-pSpecified    OBJECT IDENTIFIER ::= { pkcs-1 9 }
*/
#define DER_OID_V_id_pSpecified DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01, 0x01, 0x09
#define DER_OID_SZ_id_pSpecified 11
extern const unsigned char ossl_der_oid_id_pSpecified[DER_OID_SZ_id_pSpecified];

/*
* id-RSASSA-PSS    OBJECT IDENTIFIER ::= { pkcs-1 10 }
*/
#define DER_OID_V_id_RSASSA_PSS DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01, 0x01,
0x0A
#define DER_OID_SZ_id_RSASSA_PSS 11
extern const unsigned char ossl_der_oid_id_RSASSA_PSS[DER_OID_SZ_id_RSASSA_PSS];

/*
* md2WithRSAEncryption        OBJECT IDENTIFIER ::= { pkcs-1 2 }
*/
#define DER_OID_V_md2WithRSAEncryption
 DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01, 0x01, 0x02
#define DER_OID_SZ_md2WithRSAEncryption 11
extern const unsigned char ossl_der_oid_md2WithRSAEncryption[DER_OID_SZ_md2WithRSAEncryption];

/*
* md5WithRSAEncryption        OBJECT IDENTIFIER ::= { pkcs-1 4 }
*/
#define DER_OID_V_md5WithRSAEncryption DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01,
0x01, 0x04
#define DER_OID_SZ_md5WithRSAEncryption 11
extern const unsigned char ossl_der_oid_md5WithRSAEncryption[DER_OID_SZ_md5WithRSAEncryption];

/*
* sha1WithRSAEncryption       OBJECT IDENTIFIER ::= { pkcs-1 5 }
*/
#define DER_OID_V_sha1WithRSAEncryption DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01,
0x01, 0x05
#define DER_OID_SZ_sha1WithRSAEncryption 11
extern const unsigned char ossl_der_oid_sha1WithRSAEncryption[DER_OID_SZ_sha1WithRSAEncryption];
```

```
/*
* sha224WithRSAEncryption      OBJECT IDENTIFIER ::= { pkcs-1 14 }
*/
#define DER_OID_V_sha224WithRSAEncryption DER_P_OBJECT,
 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01, 0x01, 0x0E
#define DER_OID_SZ_sha224WithRSAEncryption 11
extern const unsigned char ossl_der_oid_sha224WithRSAEncryption[DER_OID_SZ_sha224WithRSAEncryption];

/*
* sha256WithRSAEncryption      OBJECT IDENTIFIER ::= { pkcs-1 11 }
*/
#define DER_OID_V_sha256WithRSAEncryption DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D,
0x01, 0x01, 0x0B
#define DER_OID_SZ_sha256WithRSAEncryption 11
extern const unsigned char ossl_der_oid_sha256WithRSAEncryption[DER_OID_SZ_sha256WithRSAEncryption];

/*
* sha384WithRSAEncryption      OBJECT IDENTIFIER ::= { pkcs-1 12 }
*/
#define DER_OID_V_sha384WithRSAEncryption DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D,
0x01, 0x01, 0x0C
#define DER_OID_SZ_sha384WithRSAEncryption 11
extern const unsigned char ossl_der_oid_sha384WithRSAEncryption[DER_OID_SZ_sha384WithRSAEncryption];

/*
* sha512WithRSAEncryption      OBJECT IDENTIFIER ::= { pkcs-1 13 }
*/
#define DER_OID_V_sha512WithRSAEncryption
 DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01, 0x01, 0x0D
#define DER_OID_SZ_sha512WithRSAEncryption 11
extern const unsigned char ossl_der_oid_sha512WithRSAEncryption[DER_OID_SZ_sha512WithRSAEncryption];

/*
* sha512-224WithRSAEncryption  OBJECT IDENTIFIER ::= { pkcs-1 15 }
*/
#define DER_OID_V_sha512_224WithRSAEncryption DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D,
0x01, 0x01, 0x0F
#define DER_OID_SZ_sha512_224WithRSAEncryption 11
extern const unsigned char
ossl_der_oid_sha512_224WithRSAEncryption[DER_OID_SZ_sha512_224WithRSAEncryption];

/*
* sha512-256WithRSAEncryption  OBJECT IDENTIFIER ::= { pkcs-1 16 }
*/
#define DER_OID_V_sha512_256WithRSAEncryption DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D,
0x01, 0x01, 0x10
#define DER_OID_SZ_sha512_256WithRSAEncryption 11
```

```
extern const unsigned char
ossl_der_oid_sha512_256WithRSAEncryption[DER_OID_SZ_sha512_256WithRSAEncryption];

/*
* id-mgf1    OBJECT IDENTIFIER ::= { pkcs-1 8 }
*/
#define DER_OID_V_id_mgf1
 DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01, 0x01, 0x08
#define DER_OID_SZ_id_mgf1 11
extern const unsigned char ossl_der_oid_id_mgf1[DER_OID_SZ_id_mgf1];

/*
* id-rsassa-pkcs1-v1_5-with-sha3-224 OBJECT IDENTIFIER ::= { sigAlgs 13 }
*/
#define DER_OID_V_id_rsassa_pkcs1_v1_5_with_sha3_224 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65,
0x03, 0x04, 0x03, 0x0D
#define DER_OID_SZ_id_rsassa_pkcs1_v1_5_with_sha3_224 11
extern const unsigned char
ossl_der_oid_id_rsassa_pkcs1_v1_5_with_sha3_224[DER_OID_SZ_id_rsassa_pkcs1_v1_5_with_sha3_224];

/*
* id-rsassa-pkcs1-v1_5-with-sha3-256 OBJECT IDENTIFIER ::= { sigAlgs 14 }
*/
#define DER_OID_V_id_rsassa_pkcs1_v1_5_with_sha3_256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65,
0x03, 0x04, 0x03, 0x0E
#define DER_OID_SZ_id_rsassa_pkcs1_v1_5_with_sha3_256 11
extern const unsigned char
ossl_der_oid_id_rsassa_pkcs1_v1_5_with_sha3_256[DER_OID_SZ_id_rsassa_pkcs1_v1_5_with_sha3_256];

/*
* id-rsassa-pkcs1-v1_5-with-sha3-384 OBJECT IDENTIFIER
 ::= { sigAlgs 15 }
*/
#define DER_OID_V_id_rsassa_pkcs1_v1_5_with_sha3_384 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65,
0x03, 0x04, 0x03, 0x0F
#define DER_OID_SZ_id_rsassa_pkcs1_v1_5_with_sha3_384 11
extern const unsigned char
ossl_der_oid_id_rsassa_pkcs1_v1_5_with_sha3_384[DER_OID_SZ_id_rsassa_pkcs1_v1_5_with_sha3_384];

/*
* id-rsassa-pkcs1-v1_5-with-sha3-512 OBJECT IDENTIFIER ::= { sigAlgs 16 }
*/
#define DER_OID_V_id_rsassa_pkcs1_v1_5_with_sha3_512 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65,
0x03, 0x04, 0x03, 0x10
#define DER_OID_SZ_id_rsassa_pkcs1_v1_5_with_sha3_512 11
extern const unsigned char
ossl_der_oid_id_rsassa_pkcs1_v1_5_with_sha3_512[DER_OID_SZ_id_rsassa_pkcs1_v1_5_with_sha3_512];
```

```
/*
* md4WithRSAEncryption OBJECT IDENTIFIER ::= { pkcs-1 3 }
*/
#define DER_OID_V_md4WithRSAEncryption DER_P_OBJECT, 9, 0x2A, 0x86, 0x48, 0x86, 0xF7, 0x0D, 0x01,
0x01, 0x03
#define DER_OID_SZ_md4WithRSAEncryption 11
extern const unsigned char ossl_der_oid_md4WithRSAEncryption[DER_OID_SZ_md4WithRSAEncryption];

/*
 * ripemd160WithRSAEncryption    OBJECT IDENTIFIER ::= {
*     iso(1) identified-organization(3) teletrust(36) algorithm(3) signatureAlgorithm(3) rsaSignature(1) 2
* }
*/
#define DER_OID_V_ripemd160WithRSAEncryption DER_P_OBJECT, 6, 0x2B, 0x24, 0x03, 0x03, 0x01, 0x02
#define DER_OID_SZ_ripemd160WithRSAEncryption 8
extern const unsigned char
ossl_der_oid_ripemd160WithRSAEncryption[DER_OID_SZ_ripemd160WithRSAEncryption];

/*
* mdc2WithRSASignature OBJECT IDENTIFIER ::= {
*     iso(1) identified-organization(3) oiw(14) secsig(3) algorithms(2) mdc2WithRSASignature(14)
* }
*/
#define DER_OID_V_mdc2WithRSASignature DER_P_OBJECT, 5, 0x2B, 0x0E, 0x03, 0x02, 0x0E
#define DER_OID_SZ_mdc2WithRSASignature 7
extern const unsigned char ossl_der_oid_mdc2WithRSASignature[DER_OID_SZ_mdc2WithRSASignature];


/* PSS parameters */
int ossl_DER_w_RSASSA_PSS_params(WPACKET *pkt, int tag,
                         const RSA_PSS_PARAMS_30 *pss);
/* Subject Public
 Key Info */
int ossl_DER_w_algorithmIdentifier_RSA(WPACKET *pkt, int tag, RSA *rsa);
int ossl_DER_w_algorithmIdentifier_RSA_PSS(WPACKET *pkt, int tag,
                                int rsa_type,
                                const RSA_PSS_PARAMS_30 *pss);
/* Signature */
int ossl_DER_w_algorithmIdentifier_MDWithRSAEncryption(WPACKET *pkt, int tag,
                                        int mdnid);
```

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```
{
  global:
      OSSL_provider_init;
  local: *;
};
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/x509v3.h.in
*
* Copyright 1999-2023 The OpenSSL Project Authors. All Rights Reserved.
*
* Licensed under the Apache License 2.0 (the "License").  You may not use
* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/



#ifndef OPENSSL_X509V3_H
# define OPENSSL_X509V3_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_X509V3_H
# endif

# include <openssl/bio.h>
# include <openssl/x509.h>
# include <openssl/conf.h>
# include <openssl/x509v3err.h>

#ifdef __cplusplus
extern "C" {
#endif

/* Forward reference */
struct v3_ext_method;
```

```
struct v3_ext_ctx;

/* Useful typedefs */

typedef void *(*X509V3_EXT_NEW)(void);
typedef void (*X509V3_EXT_FREE) (void *);
typedef void *(*X509V3_EXT_D2I)(void *, const unsigned char **, long);
typedef int (*X509V3_EXT_I2D)
 (const void *, unsigned char **);
typedef STACK_OF(CONF_VALUE) *
   (*X509V3_EXT_I2V) (const struct v3_ext_method *method, void *ext,
                    STACK_OF(CONF_VALUE) *extlist);
typedef void *(*X509V3_EXT_V2I)(const struct v3_ext_method *method,
                          struct v3_ext_ctx *ctx,
                          STACK_OF(CONF_VALUE) *values);
typedef char *(*X509V3_EXT_I2S)(const struct v3_ext_method *method,
                          void *ext);
typedef void *(*X509V3_EXT_S2I)(const struct v3_ext_method *method,
                          struct v3_ext_ctx *ctx, const char *str);
typedef int (*X509V3_EXT_I2R) (const struct v3_ext_method *method, void *ext,
                         BIO *out, int indent);
typedef void *(*X509V3_EXT_R2I)(const struct v3_ext_method *method,
                          struct v3_ext_ctx *ctx, const char *str);

/* V3 extension structure */

struct v3_ext_method {
   int ext_nid;
   int ext_flags;
/*
 If this is set the following four fields are ignored */
   ASN1_ITEM_EXP *it;
/* Old style ASN1 calls */
   X509V3_EXT_NEW ext_new;
   X509V3_EXT_FREE ext_free;
   X509V3_EXT_D2I d2i;
   X509V3_EXT_I2D i2d;
/* The following pair is used for string extensions */
   X509V3_EXT_I2S i2s;
   X509V3_EXT_S2I s2i;
/* The following pair is used for multi-valued extensions */
   X509V3_EXT_I2V i2v;
   X509V3_EXT_V2I v2i;
/* The following are used for raw extensions */
   X509V3_EXT_I2R i2r;
   X509V3_EXT_R2I r2i;
   void *usr_data;            /* Any extension specific data */
};
```

```
typedef struct X509V3_CONF_METHOD_st {
   char *(*get_string) (void *db, const char *section, const char *value);
   STACK_OF(CONF_VALUE) *(*get_section) (void *db, const char *section);
   void (*free_string) (void *db, char *string);
   void (*free_section) (void *db, STACK_OF(CONF_VALUE) *section);
} X509V3_CONF_METHOD;

/* Context specific info for producing X509 v3 extensions*/
struct v3_ext_ctx
 {
# define X509V3_CTX_TEST 0x1
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define CTX_TEST X509V3_CTX_TEST
# endif
# define X509V3_CTX_REPLACE 0x2
   int flags;
   X509 *issuer_cert;
   X509 *subject_cert;
   X509_REQ *subject_req;
   X509_CRL *crl;
   X509V3_CONF_METHOD *db_meth;
   void *db;
   EVP_PKEY *issuer_pkey;
/* Maybe more here */
};

typedef struct v3_ext_method X509V3_EXT_METHOD;

SKM_DEFINE_STACK_OF_INTERNAL(X509V3_EXT_METHOD, X509V3_EXT_METHOD,
X509V3_EXT_METHOD)
#define sk_X509V3_EXT_METHOD_num(sk)
OPENSSL_sk_num(ossl_check_const_X509V3_EXT_METHOD_sk_type(sk))
#define sk_X509V3_EXT_METHOD_value(sk, idx) ((X509V3_EXT_METHOD
*)OPENSSL_sk_value(ossl_check_const_X509V3_EXT_METHOD_sk_type(sk), (idx)))
#define sk_X509V3_EXT_METHOD_new(cmp) ((STACK_OF(X509V3_EXT_METHOD)
*)OPENSSL_sk_new(ossl_check_X509V3_EXT_METHOD_compfunc_type(cmp)))
#define sk_X509V3_EXT_METHOD_new_null() ((STACK_OF(X509V3_EXT_METHOD)
*)OPENSSL_sk_new_null())
#define sk_X509V3_EXT_METHOD_new_reserve(cmp,
 n) ((STACK_OF(X509V3_EXT_METHOD)
*)OPENSSL_sk_new_reserve(ossl_check_X509V3_EXT_METHOD_compfunc_type(cmp), (n)))
#define sk_X509V3_EXT_METHOD_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_X509V3_EXT_METHOD_sk_type(sk), (n))
#define sk_X509V3_EXT_METHOD_free(sk)
OPENSSL_sk_free(ossl_check_X509V3_EXT_METHOD_sk_type(sk))
#define sk_X509V3_EXT_METHOD_zero(sk)
OPENSSL_sk_zero(ossl_check_X509V3_EXT_METHOD_sk_type(sk))
```

```
#define sk_X509V3_EXT_METHOD_delete(sk, i) ((X509V3_EXT_METHOD
*)OPENSSL_sk_delete(ossl_check_X509V3_EXT_METHOD_sk_type(sk), (i)))
#define sk_X509V3_EXT_METHOD_delete_ptr(sk, ptr) ((X509V3_EXT_METHOD
*)OPENSSL_sk_delete_ptr(ossl_check_X509V3_EXT_METHOD_sk_type(sk),
ossl_check_X509V3_EXT_METHOD_type(ptr)))
#define sk_X509V3_EXT_METHOD_push(sk, ptr)
OPENSSL_sk_push(ossl_check_X509V3_EXT_METHOD_sk_type(sk),
ossl_check_X509V3_EXT_METHOD_type(ptr))
#define sk_X509V3_EXT_METHOD_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_X509V3_EXT_METHOD_sk_type(sk),
ossl_check_X509V3_EXT_METHOD_type(ptr))
#define
 sk_X509V3_EXT_METHOD_pop(sk) ((X509V3_EXT_METHOD
*)OPENSSL_sk_pop(ossl_check_X509V3_EXT_METHOD_sk_type(sk)))
#define sk_X509V3_EXT_METHOD_shift(sk) ((X509V3_EXT_METHOD
*)OPENSSL_sk_shift(ossl_check_X509V3_EXT_METHOD_sk_type(sk)))
#define sk_X509V3_EXT_METHOD_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509V3_EXT_METHOD_sk_type(sk),ossl_check_X509V3_EXT_METHOD
_freefunc_type(freefunc))
#define sk_X509V3_EXT_METHOD_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_X509V3_EXT_METHOD_sk_type(sk),
ossl_check_X509V3_EXT_METHOD_type(ptr), (idx))
#define sk_X509V3_EXT_METHOD_set(sk, idx, ptr) ((X509V3_EXT_METHOD
*)OPENSSL_sk_set(ossl_check_X509V3_EXT_METHOD_sk_type(sk), (idx),
ossl_check_X509V3_EXT_METHOD_type(ptr)))
#define sk_X509V3_EXT_METHOD_find(sk, ptr)
OPENSSL_sk_find(ossl_check_X509V3_EXT_METHOD_sk_type(sk),
ossl_check_X509V3_EXT_METHOD_type(ptr))
#define sk_X509V3_EXT_METHOD_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_X509V3_EXT_METHOD_sk_type(sk),
 ossl_check_X509V3_EXT_METHOD_type(ptr))
#define sk_X509V3_EXT_METHOD_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509V3_EXT_METHOD_sk_type(sk),
ossl_check_X509V3_EXT_METHOD_type(ptr), pnum)
#define sk_X509V3_EXT_METHOD_sort(sk)
OPENSSL_sk_sort(ossl_check_X509V3_EXT_METHOD_sk_type(sk))
#define sk_X509V3_EXT_METHOD_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_X509V3_EXT_METHOD_sk_type(sk))
#define sk_X509V3_EXT_METHOD_dup(sk) ((STACK_OF(X509V3_EXT_METHOD)
*)OPENSSL_sk_dup(ossl_check_const_X509V3_EXT_METHOD_sk_type(sk)))
#define sk_X509V3_EXT_METHOD_deep_copy(sk, copyfunc, freefunc)
((STACK_OF(X509V3_EXT_METHOD)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509V3_EXT_METHOD_sk_type(sk),
ossl_check_X509V3_EXT_METHOD_copyfunc_type(copyfunc),
ossl_check_X509V3_EXT_METHOD_freefunc_type(freefunc)))
#define sk_X509V3_EXT_METHOD_set_cmp_func(sk, cmp)
((sk_X509V3_EXT_METHOD_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509V3_EXT_METHOD_sk
_type(sk), ossl_check_X509V3_EXT_METHOD_compfunc_type(cmp)))
```

```
/*
 ext_flags values */
# define X509V3_EXT_DYNAMIC      0x1
# define X509V3_EXT_CTX_DEP      0x2
# define X509V3_EXT_MULTILINE    0x4

typedef BIT_STRING_BITNAME ENUMERATED_NAMES;

typedef struct BASIC_CONSTRAINTS_st {
   int ca;
   ASN1_INTEGER *pathlen;
} BASIC_CONSTRAINTS;

typedef struct PKEY_USAGE_PERIOD_st {
   ASN1_GENERALIZEDTIME *notBefore;
   ASN1_GENERALIZEDTIME *notAfter;
} PKEY_USAGE_PERIOD;

typedef struct otherName_st {
   ASN1_OBJECT *type_id;
   ASN1_TYPE *value;
} OTHERNAME;

typedef struct EDIPartyName_st {
   ASN1_STRING *nameAssigner;
   ASN1_STRING *partyName;
} EDIPARTYNAME;

typedef struct GENERAL_NAME_st {
# define GEN_OTHERNAME   0
# define GEN_EMAIL       1
# define GEN_DNS         2
# define GEN_X400        3
# define GEN_DIRNAME     4
# define GEN_EDIPARTY    5
# define GEN_URI         6
# define GEN_IPADD       7
# define GEN_RID         8
   int type;
   union {
      char *ptr;
      OTHERNAME *otherName;   /* otherName */
       ASN1_IA5STRING *rfc822Name;
      ASN1_IA5STRING *dNSName;
      ASN1_STRING *x400Address;
      X509_NAME *directoryName;
```

```
    EDIPARTYNAME *ediPartyName;
    ASN1_IA5STRING *uniformResourceIdentifier;
    ASN1_OCTET_STRING *iPAddress;
    ASN1_OBJECT *registeredID;
    /* Old names */
    ASN1_OCTET_STRING *ip;  /* iPAddress */
    X509_NAME *dirn;        /* dirn */
    ASN1_IA5STRING *ia5;    /* rfc822Name, dNSName,
                             * uniformResourceIdentifier */
    ASN1_OBJECT *rid;       /* registeredID */
    ASN1_TYPE *other;       /* x400Address */
  } d;
} GENERAL_NAME;

typedef struct ACCESS_DESCRIPTION_st {
  ASN1_OBJECT *method;
  GENERAL_NAME *location;
} ACCESS_DESCRIPTION;

SKM_DEFINE_STACK_OF_INTERNAL(ACCESS_DESCRIPTION, ACCESS_DESCRIPTION,
ACCESS_DESCRIPTION)
#define sk_ACCESS_DESCRIPTION_num(sk)
OPENSSL_sk_num(ossl_check_const_ACCESS_DESCRIPTION_sk_type(sk))
#define sk_ACCESS_DESCRIPTION_value(sk,
 idx) ((ACCESS_DESCRIPTION
*)OPENSSL_sk_value(ossl_check_const_ACCESS_DESCRIPTION_sk_type(sk), (idx)))
#define sk_ACCESS_DESCRIPTION_new(cmp) ((STACK_OF(ACCESS_DESCRIPTION)
*)OPENSSL_sk_new(ossl_check_ACCESS_DESCRIPTION_compfunc_type(cmp)))
#define sk_ACCESS_DESCRIPTION_new_null() ((STACK_OF(ACCESS_DESCRIPTION)
*)OPENSSL_sk_new_null())
#define sk_ACCESS_DESCRIPTION_new_reserve(cmp, n) ((STACK_OF(ACCESS_DESCRIPTION)
*)OPENSSL_sk_new_reserve(ossl_check_ACCESS_DESCRIPTION_compfunc_type(cmp), (n)))
#define sk_ACCESS_DESCRIPTION_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_ACCESS_DESCRIPTION_sk_type(sk), (n))
#define sk_ACCESS_DESCRIPTION_free(sk)
OPENSSL_sk_free(ossl_check_ACCESS_DESCRIPTION_sk_type(sk))
#define sk_ACCESS_DESCRIPTION_zero(sk)
OPENSSL_sk_zero(ossl_check_ACCESS_DESCRIPTION_sk_type(sk))
#define sk_ACCESS_DESCRIPTION_delete(sk, i) ((ACCESS_DESCRIPTION
*)OPENSSL_sk_delete(ossl_check_ACCESS_DESCRIPTION_sk_type(sk), (i)))
#define sk_ACCESS_DESCRIPTION_delete_ptr(sk, ptr) ((ACCESS_DESCRIPTION
 *)OPENSSL_sk_delete_ptr(ossl_check_ACCESS_DESCRIPTION_sk_type(sk),
ossl_check_ACCESS_DESCRIPTION_type(ptr)))
#define sk_ACCESS_DESCRIPTION_push(sk, ptr)
OPENSSL_sk_push(ossl_check_ACCESS_DESCRIPTION_sk_type(sk),
ossl_check_ACCESS_DESCRIPTION_type(ptr))
#define sk_ACCESS_DESCRIPTION_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_ACCESS_DESCRIPTION_sk_type(sk),
```

```
ossl_check_ACCESS_DESCRIPTION_type(ptr))
#define sk_ACCESS_DESCRIPTION_pop(sk) ((ACCESS_DESCRIPTION
*)OPENSSL_sk_pop(ossl_check_ACCESS_DESCRIPTION_sk_type(sk)))
#define sk_ACCESS_DESCRIPTION_shift(sk) ((ACCESS_DESCRIPTION
*)OPENSSL_sk_shift(ossl_check_ACCESS_DESCRIPTION_sk_type(sk)))
#define sk_ACCESS_DESCRIPTION_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ACCESS_DESCRIPTION_sk_type(sk),ossl_check_ACCESS_DESCRIPTIO
N_freefunc_type(freefunc))
#define sk_ACCESS_DESCRIPTION_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_ACCESS_DESCRIPTION_sk_type(sk),
ossl_check_ACCESS_DESCRIPTION_type(ptr), (idx))
#define
 sk_ACCESS_DESCRIPTION_set(sk, idx, ptr) ((ACCESS_DESCRIPTION
*)OPENSSL_sk_set(ossl_check_ACCESS_DESCRIPTION_sk_type(sk), (idx),
ossl_check_ACCESS_DESCRIPTION_type(ptr)))
#define sk_ACCESS_DESCRIPTION_find(sk, ptr)
OPENSSL_sk_find(ossl_check_ACCESS_DESCRIPTION_sk_type(sk),
ossl_check_ACCESS_DESCRIPTION_type(ptr))
#define sk_ACCESS_DESCRIPTION_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_ACCESS_DESCRIPTION_sk_type(sk),
ossl_check_ACCESS_DESCRIPTION_type(ptr))
#define sk_ACCESS_DESCRIPTION_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ACCESS_DESCRIPTION_sk_type(sk),
ossl_check_ACCESS_DESCRIPTION_type(ptr), pnum)
#define sk_ACCESS_DESCRIPTION_sort(sk)
OPENSSL_sk_sort(ossl_check_ACCESS_DESCRIPTION_sk_type(sk))
#define sk_ACCESS_DESCRIPTION_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_ACCESS_DESCRIPTION_sk_type(sk))
#define sk_ACCESS_DESCRIPTION_dup(sk) ((STACK_OF(ACCESS_DESCRIPTION)
*)OPENSSL_sk_dup(ossl_check_const_ACCESS_DESCRIPTION_sk_type(sk)))
#define sk_ACCESS_DESCRIPTION_deep_copy(sk,
 copyfunc, freefunc) ((STACK_OF(ACCESS_DESCRIPTION)
*)OPENSSL_sk_deep_copy(ossl_check_const_ACCESS_DESCRIPTION_sk_type(sk),
ossl_check_ACCESS_DESCRIPTION_copyfunc_type(copyfunc),
ossl_check_ACCESS_DESCRIPTION_freefunc_type(freefunc)))
#define sk_ACCESS_DESCRIPTION_set_cmp_func(sk, cmp)
((sk_ACCESS_DESCRIPTION_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ACCESS_DESCRIPTION_s
k_type(sk), ossl_check_ACCESS_DESCRIPTION_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(GENERAL_NAME, GENERAL_NAME, GENERAL_NAME)
#define sk_GENERAL_NAME_num(sk) OPENSSL_sk_num(ossl_check_const_GENERAL_NAME_sk_type(sk))
#define sk_GENERAL_NAME_value(sk, idx) ((GENERAL_NAME
*)OPENSSL_sk_value(ossl_check_const_GENERAL_NAME_sk_type(sk), (idx)))
#define sk_GENERAL_NAME_new(cmp) ((STACK_OF(GENERAL_NAME)
*)OPENSSL_sk_new(ossl_check_GENERAL_NAME_compfunc_type(cmp)))
#define sk_GENERAL_NAME_new_null() ((STACK_OF(GENERAL_NAME) *)OPENSSL_sk_new_null())
#define sk_GENERAL_NAME_new_reserve(cmp, n) ((STACK_OF(GENERAL_NAME)
 *)OPENSSL_sk_new_reserve(ossl_check_GENERAL_NAME_compfunc_type(cmp), (n)))
#define sk_GENERAL_NAME_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_GENERAL_NAME_sk_type(sk),
```

```
(n))
#define sk_GENERAL_NAME_free(sk) OPENSSL_sk_free(ossl_check_GENERAL_NAME_sk_type(sk))
#define sk_GENERAL_NAME_zero(sk) OPENSSL_sk_zero(ossl_check_GENERAL_NAME_sk_type(sk))
#define sk_GENERAL_NAME_delete(sk, i) ((GENERAL_NAME
*)OPENSSL_sk_delete(ossl_check_GENERAL_NAME_sk_type(sk), (i)))
#define sk_GENERAL_NAME_delete_ptr(sk, ptr) ((GENERAL_NAME
*)OPENSSL_sk_delete_ptr(ossl_check_GENERAL_NAME_sk_type(sk),
ossl_check_GENERAL_NAME_type(ptr)))
#define sk_GENERAL_NAME_push(sk, ptr) OPENSSL_sk_push(ossl_check_GENERAL_NAME_sk_type(sk),
ossl_check_GENERAL_NAME_type(ptr))
#define sk_GENERAL_NAME_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_GENERAL_NAME_sk_type(sk), ossl_check_GENERAL_NAME_type(ptr))
#define sk_GENERAL_NAME_pop(sk) ((GENERAL_NAME
*)OPENSSL_sk_pop(ossl_check_GENERAL_NAME_sk_type(sk)))
#define
 sk_GENERAL_NAME_shift(sk) ((GENERAL_NAME
*)OPENSSL_sk_shift(ossl_check_GENERAL_NAME_sk_type(sk)))
#define sk_GENERAL_NAME_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_GENERAL_NAME_sk_type(sk),ossl_check_GENERAL_NAME_freefunc_ty
pe(freefunc))
#define sk_GENERAL_NAME_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_GENERAL_NAME_sk_type(sk), ossl_check_GENERAL_NAME_type(ptr),
(idx))
#define sk_GENERAL_NAME_set(sk, idx, ptr) ((GENERAL_NAME
*)OPENSSL_sk_set(ossl_check_GENERAL_NAME_sk_type(sk), (idx),
ossl_check_GENERAL_NAME_type(ptr)))
#define sk_GENERAL_NAME_find(sk, ptr) OPENSSL_sk_find(ossl_check_GENERAL_NAME_sk_type(sk),
ossl_check_GENERAL_NAME_type(ptr))
#define sk_GENERAL_NAME_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_GENERAL_NAME_sk_type(sk), ossl_check_GENERAL_NAME_type(ptr))
#define sk_GENERAL_NAME_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_GENERAL_NAME_sk_type(sk), ossl_check_GENERAL_NAME_type(ptr),
pnum)
#define sk_GENERAL_NAME_sort(sk) OPENSSL_sk_sort(ossl_check_GENERAL_NAME_sk_type(sk))
#define
 sk_GENERAL_NAME_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_GENERAL_NAME_sk_type(sk))
#define sk_GENERAL_NAME_dup(sk) ((STACK_OF(GENERAL_NAME)
*)OPENSSL_sk_dup(ossl_check_const_GENERAL_NAME_sk_type(sk)))
#define sk_GENERAL_NAME_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(GENERAL_NAME)
*)OPENSSL_sk_deep_copy(ossl_check_const_GENERAL_NAME_sk_type(sk),
ossl_check_GENERAL_NAME_copyfunc_type(copyfunc),
ossl_check_GENERAL_NAME_freefunc_type(freefunc)))
#define sk_GENERAL_NAME_set_cmp_func(sk, cmp)
((sk_GENERAL_NAME_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_GENERAL_NAME_sk_type(sk),
ossl_check_GENERAL_NAME_compfunc_type(cmp)))
```

```
typedef STACK_OF(ACCESS_DESCRIPTION) AUTHORITY_INFO_ACCESS;
typedef STACK_OF(ASN1_OBJECT) EXTENDED_KEY_USAGE;
typedef STACK_OF(ASN1_INTEGER) TLS_FEATURE;
typedef STACK_OF(GENERAL_NAME) GENERAL_NAMES;

SKM_DEFINE_STACK_OF_INTERNAL(GENERAL_NAMES, GENERAL_NAMES, GENERAL_NAMES)
#define sk_GENERAL_NAMES_num(sk)
OPENSSL_sk_num(ossl_check_const_GENERAL_NAMES_sk_type(sk))
#define
 sk_GENERAL_NAMES_value(sk, idx) ((GENERAL_NAMES
*)OPENSSL_sk_value(ossl_check_const_GENERAL_NAMES_sk_type(sk), (idx)))
#define sk_GENERAL_NAMES_new(cmp) ((STACK_OF(GENERAL_NAMES)
*)OPENSSL_sk_new(ossl_check_GENERAL_NAMES_compfunc_type(cmp)))
#define sk_GENERAL_NAMES_new_null() ((STACK_OF(GENERAL_NAMES) *)OPENSSL_sk_new_null())
#define sk_GENERAL_NAMES_new_reserve(cmp, n) ((STACK_OF(GENERAL_NAMES)
*)OPENSSL_sk_new_reserve(ossl_check_GENERAL_NAMES_compfunc_type(cmp), (n)))
#define sk_GENERAL_NAMES_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_GENERAL_NAMES_sk_type(sk), (n))
#define sk_GENERAL_NAMES_free(sk) OPENSSL_sk_free(ossl_check_GENERAL_NAMES_sk_type(sk))
#define sk_GENERAL_NAMES_zero(sk) OPENSSL_sk_zero(ossl_check_GENERAL_NAMES_sk_type(sk))
#define sk_GENERAL_NAMES_delete(sk, i) ((GENERAL_NAMES
*)OPENSSL_sk_delete(ossl_check_GENERAL_NAMES_sk_type(sk), (i)))
#define sk_GENERAL_NAMES_delete_ptr(sk, ptr) ((GENERAL_NAMES
 *)OPENSSL_sk_delete_ptr(ossl_check_GENERAL_NAMES_sk_type(sk),
ossl_check_GENERAL_NAMES_type(ptr)))
#define sk_GENERAL_NAMES_push(sk, ptr) OPENSSL_sk_push(ossl_check_GENERAL_NAMES_sk_type(sk),
ossl_check_GENERAL_NAMES_type(ptr))
#define sk_GENERAL_NAMES_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_GENERAL_NAMES_sk_type(sk), ossl_check_GENERAL_NAMES_type(ptr))
#define sk_GENERAL_NAMES_pop(sk) ((GENERAL_NAMES
*)OPENSSL_sk_pop(ossl_check_GENERAL_NAMES_sk_type(sk)))
#define sk_GENERAL_NAMES_shift(sk) ((GENERAL_NAMES
*)OPENSSL_sk_shift(ossl_check_GENERAL_NAMES_sk_type(sk)))
#define sk_GENERAL_NAMES_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_GENERAL_NAMES_sk_type(sk),ossl_check_GENERAL_NAMES_freefunc
_type(freefunc))
#define sk_GENERAL_NAMES_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_GENERAL_NAMES_sk_type(sk), ossl_check_GENERAL_NAMES_type(ptr),
(idx))
#define sk_GENERAL_NAMES_set(sk, idx, ptr) ((GENERAL_NAMES
*)OPENSSL_sk_set(ossl_check_GENERAL_NAMES_sk_type(sk), (idx),
ossl_check_GENERAL_NAMES_type(ptr)))
#define
 sk_GENERAL_NAMES_find(sk, ptr) OPENSSL_sk_find(ossl_check_GENERAL_NAMES_sk_type(sk),
ossl_check_GENERAL_NAMES_type(ptr))
#define sk_GENERAL_NAMES_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_GENERAL_NAMES_sk_type(sk), ossl_check_GENERAL_NAMES_type(ptr))
#define sk_GENERAL_NAMES_find_all(sk, ptr, pnum)
```

```
OPENSSL_sk_find_all(ossl_check_GENERAL_NAMES_sk_type(sk), ossl_check_GENERAL_NAMES_type(ptr),
pnum)
#define sk_GENERAL_NAMES_sort(sk) OPENSSL_sk_sort(ossl_check_GENERAL_NAMES_sk_type(sk))
#define sk_GENERAL_NAMES_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_GENERAL_NAMES_sk_type(sk))
#define sk_GENERAL_NAMES_dup(sk) ((STACK_OF(GENERAL_NAMES)
*)OPENSSL_sk_dup(ossl_check_const_GENERAL_NAMES_sk_type(sk)))
#define sk_GENERAL_NAMES_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(GENERAL_NAMES)
*)OPENSSL_sk_deep_copy(ossl_check_const_GENERAL_NAMES_sk_type(sk),
ossl_check_GENERAL_NAMES_copyfunc_type(copyfunc),
ossl_check_GENERAL_NAMES_freefunc_type(freefunc)))
#define
 sk_GENERAL_NAMES_set_cmp_func(sk, cmp)
((sk_GENERAL_NAMES_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_GENERAL_NAMES_sk_type(sk),
ossl_check_GENERAL_NAMES_compfunc_type(cmp)))


typedef struct DIST_POINT_NAME_st {
   int type;
   union {
      GENERAL_NAMES *fullname;
      STACK_OF(X509_NAME_ENTRY) *relativename;
   } name;
/* If relativename then this contains the full distribution point name */
   X509_NAME *dpname;
} DIST_POINT_NAME;
/* All existing reasons */
# define CRLDP_ALL_REASONS       0x807f

# define CRL_REASON_NONE                    -1
# define CRL_REASON_UNSPECIFIED             0
# define CRL_REASON_KEY_COMPROMISE          1
# define CRL_REASON_CA_COMPROMISE           2
# define CRL_REASON_AFFILIATION_CHANGED     3
# define CRL_REASON_SUPERSEDED              4
# define CRL_REASON_CESSATION_OF_OPERATION  5
# define CRL_REASON_CERTIFICATE_HOLD        6
# define CRL_REASON_REMOVE_FROM_CRL         8
#
 define CRL_REASON_PRIVILEGE_WITHDRAWN      9
# define CRL_REASON_AA_COMPROMISE           10

struct DIST_POINT_st {
   DIST_POINT_NAME *distpoint;
   ASN1_BIT_STRING *reasons;
   GENERAL_NAMES *CRLissuer;
   int dp_reasons;
};
```

```
SKM_DEFINE_STACK_OF_INTERNAL(DIST_POINT, DIST_POINT, DIST_POINT)
#define sk_DIST_POINT_num(sk) OPENSSL_sk_num(ossl_check_const_DIST_POINT_sk_type(sk))
#define sk_DIST_POINT_value(sk, idx) ((DIST_POINT
*)OPENSSL_sk_value(ossl_check_const_DIST_POINT_sk_type(sk), (idx)))
#define sk_DIST_POINT_new(cmp) ((STACK_OF(DIST_POINT)
*)OPENSSL_sk_new(ossl_check_DIST_POINT_compfunc_type(cmp)))
#define sk_DIST_POINT_new_null() ((STACK_OF(DIST_POINT) *)OPENSSL_sk_new_null())
#define sk_DIST_POINT_new_reserve(cmp, n) ((STACK_OF(DIST_POINT)
*)OPENSSL_sk_new_reserve(ossl_check_DIST_POINT_compfunc_type(cmp), (n)))
#define sk_DIST_POINT_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_DIST_POINT_sk_type(sk), (n))
#define sk_DIST_POINT_free(sk) OPENSSL_sk_free(ossl_check_DIST_POINT_sk_type(sk))
#define
 sk_DIST_POINT_zero(sk) OPENSSL_sk_zero(ossl_check_DIST_POINT_sk_type(sk))
#define sk_DIST_POINT_delete(sk, i) ((DIST_POINT
*)OPENSSL_sk_delete(ossl_check_DIST_POINT_sk_type(sk), (i)))
#define sk_DIST_POINT_delete_ptr(sk, ptr) ((DIST_POINT
*)OPENSSL_sk_delete_ptr(ossl_check_DIST_POINT_sk_type(sk), ossl_check_DIST_POINT_type(ptr)))
#define sk_DIST_POINT_push(sk, ptr) OPENSSL_sk_push(ossl_check_DIST_POINT_sk_type(sk),
ossl_check_DIST_POINT_type(ptr))
#define sk_DIST_POINT_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_DIST_POINT_sk_type(sk),
ossl_check_DIST_POINT_type(ptr))
#define sk_DIST_POINT_pop(sk) ((DIST_POINT *)OPENSSL_sk_pop(ossl_check_DIST_POINT_sk_type(sk)))
#define sk_DIST_POINT_shift(sk) ((DIST_POINT *)OPENSSL_sk_shift(ossl_check_DIST_POINT_sk_type(sk)))
#define sk_DIST_POINT_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_DIST_POINT_sk_type(sk),ossl_check_DIST_POINT_freefunc_type(freefunc)
)
#define sk_DIST_POINT_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_DIST_POINT_sk_type(sk),
 ossl_check_DIST_POINT_type(ptr), (idx))
#define sk_DIST_POINT_set(sk, idx, ptr) ((DIST_POINT
*)OPENSSL_sk_set(ossl_check_DIST_POINT_sk_type(sk), (idx), ossl_check_DIST_POINT_type(ptr)))
#define sk_DIST_POINT_find(sk, ptr) OPENSSL_sk_find(ossl_check_DIST_POINT_sk_type(sk),
ossl_check_DIST_POINT_type(ptr))
#define sk_DIST_POINT_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_DIST_POINT_sk_type(sk),
ossl_check_DIST_POINT_type(ptr))
#define sk_DIST_POINT_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_DIST_POINT_sk_type(sk),
ossl_check_DIST_POINT_type(ptr), pnum)
#define sk_DIST_POINT_sort(sk) OPENSSL_sk_sort(ossl_check_DIST_POINT_sk_type(sk))
#define sk_DIST_POINT_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_DIST_POINT_sk_type(sk))
#define sk_DIST_POINT_dup(sk) ((STACK_OF(DIST_POINT)
*)OPENSSL_sk_dup(ossl_check_const_DIST_POINT_sk_type(sk)))
#define sk_DIST_POINT_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(DIST_POINT)
*)OPENSSL_sk_deep_copy(ossl_check_const_DIST_POINT_sk_type(sk),
 ossl_check_DIST_POINT_copyfunc_type(copyfunc), ossl_check_DIST_POINT_freefunc_type(freefunc)))
#define sk_DIST_POINT_set_cmp_func(sk, cmp)
((sk_DIST_POINT_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_DIST_POINT_sk_type(sk),
ossl_check_DIST_POINT_compfunc_type(cmp)))
```

```
typedef STACK_OF(DIST_POINT) CRL_DIST_POINTS;

struct AUTHORITY_KEYID_st {
   ASN1_OCTET_STRING *keyid;
   GENERAL_NAMES *issuer;
   ASN1_INTEGER *serial;
};

/* Strong extranet structures */

typedef struct SXNET_ID_st {
   ASN1_INTEGER *zone;
   ASN1_OCTET_STRING *user;
} SXNETID;

SKM_DEFINE_STACK_OF_INTERNAL(SXNETID, SXNETID, SXNETID)
#define sk_SXNETID_num(sk) OPENSSL_sk_num(ossl_check_const_SXNETID_sk_type(sk))
#define sk_SXNETID_value(sk, idx) ((SXNETID
*)OPENSSL_sk_value(ossl_check_const_SXNETID_sk_type(sk), (idx)))
#define sk_SXNETID_new(cmp) ((STACK_OF(SXNETID)
*)OPENSSL_sk_new(ossl_check_SXNETID_compfunc_type(cmp)))
#define sk_SXNETID_new_null() ((STACK_OF(SXNETID)
 *)OPENSSL_sk_new_null())
#define sk_SXNETID_new_reserve(cmp, n) ((STACK_OF(SXNETID)
*)OPENSSL_sk_new_reserve(ossl_check_SXNETID_compfunc_type(cmp), (n)))
#define sk_SXNETID_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_SXNETID_sk_type(sk), (n))
#define sk_SXNETID_free(sk) OPENSSL_sk_free(ossl_check_SXNETID_sk_type(sk))
#define sk_SXNETID_zero(sk) OPENSSL_sk_zero(ossl_check_SXNETID_sk_type(sk))
#define sk_SXNETID_delete(sk, i) ((SXNETID *)OPENSSL_sk_delete(ossl_check_SXNETID_sk_type(sk), (i)))
#define sk_SXNETID_delete_ptr(sk, ptr) ((SXNETID
*)OPENSSL_sk_delete_ptr(ossl_check_SXNETID_sk_type(sk), ossl_check_SXNETID_type(ptr)))
#define sk_SXNETID_push(sk, ptr) OPENSSL_sk_push(ossl_check_SXNETID_sk_type(sk),
ossl_check_SXNETID_type(ptr))
#define sk_SXNETID_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_SXNETID_sk_type(sk),
ossl_check_SXNETID_type(ptr))
#define sk_SXNETID_pop(sk) ((SXNETID *)OPENSSL_sk_pop(ossl_check_SXNETID_sk_type(sk)))
#define sk_SXNETID_shift(sk) ((SXNETID *)OPENSSL_sk_shift(ossl_check_SXNETID_sk_type(sk)))
#define
 sk_SXNETID_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_SXNETID_sk_type(sk),ossl_check_SXNETID_freefunc_type(freefunc))
#define sk_SXNETID_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_SXNETID_sk_type(sk),
ossl_check_SXNETID_type(ptr), (idx))
#define sk_SXNETID_set(sk, idx, ptr) ((SXNETID *)OPENSSL_sk_set(ossl_check_SXNETID_sk_type(sk), (idx),
ossl_check_SXNETID_type(ptr)))
#define sk_SXNETID_find(sk, ptr) OPENSSL_sk_find(ossl_check_SXNETID_sk_type(sk),
ossl_check_SXNETID_type(ptr))
#define sk_SXNETID_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_SXNETID_sk_type(sk),
```

```
ossl_check_SXNETID_type(ptr))
#define sk_SXNETID_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_SXNETID_sk_type(sk),
ossl_check_SXNETID_type(ptr), pnum)
#define sk_SXNETID_sort(sk) OPENSSL_sk_sort(ossl_check_SXNETID_sk_type(sk))
#define sk_SXNETID_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_SXNETID_sk_type(sk))
#define sk_SXNETID_dup(sk)
 ((STACK_OF(SXNETID) *)OPENSSL_sk_dup(ossl_check_const_SXNETID_sk_type(sk)))
#define sk_SXNETID_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(SXNETID)
*)OPENSSL_sk_deep_copy(ossl_check_const_SXNETID_sk_type(sk),
ossl_check_SXNETID_copyfunc_type(copyfunc), ossl_check_SXNETID_freefunc_type(freefunc)))
#define sk_SXNETID_set_cmp_func(sk, cmp)
((sk_SXNETID_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_SXNETID_sk_type(sk),
ossl_check_SXNETID_compfunc_type(cmp)))



typedef struct SXNET_st {
   ASN1_INTEGER *version;
   STACK_OF(SXNETID) *ids;
} SXNET;

typedef struct ISSUER_SIGN_TOOL_st {
   ASN1_UTF8STRING *signTool;
   ASN1_UTF8STRING *cATool;
   ASN1_UTF8STRING *signToolCert;
   ASN1_UTF8STRING *cAToolCert;
} ISSUER_SIGN_TOOL;

typedef struct NOTICEREF_st {
   ASN1_STRING *organization;
   STACK_OF(ASN1_INTEGER) *noticenos;
} NOTICEREF;

typedef struct USERNOTICE_st {
   NOTICEREF *noticeref;
   ASN1_STRING *exptext;
} USERNOTICE;

typedef struct POLICYQUALINFO_st {
   ASN1_OBJECT
 *pqualid;
   union {
       ASN1_IA5STRING *cpsuri;
       USERNOTICE *usernotice;
       ASN1_TYPE *other;
   } d;
} POLICYQUALINFO;
```

```
SKM_DEFINE_STACK_OF_INTERNAL(POLICYQUALINFO, POLICYQUALINFO, POLICYQUALINFO)
#define sk_POLICYQUALINFO_num(sk)
OPENSSL_sk_num(ossl_check_const_POLICYQUALINFO_sk_type(sk))
#define sk_POLICYQUALINFO_value(sk, idx) ((POLICYQUALINFO
*)OPENSSL_sk_value(ossl_check_const_POLICYQUALINFO_sk_type(sk), (idx)))
#define sk_POLICYQUALINFO_new(cmp) ((STACK_OF(POLICYQUALINFO)
*)OPENSSL_sk_new(ossl_check_POLICYQUALINFO_compfunc_type(cmp)))
#define sk_POLICYQUALINFO_new_null() ((STACK_OF(POLICYQUALINFO) *)OPENSSL_sk_new_null())
#define sk_POLICYQUALINFO_new_reserve(cmp, n) ((STACK_OF(POLICYQUALINFO)
*)OPENSSL_sk_new_reserve(ossl_check_POLICYQUALINFO_compfunc_type(cmp), (n)))
#define sk_POLICYQUALINFO_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_POLICYQUALINFO_sk_type(sk), (n))
#define sk_POLICYQUALINFO_free(sk) OPENSSL_sk_free(ossl_check_POLICYQUALINFO_sk_type(sk))
#define
 sk_POLICYQUALINFO_zero(sk) OPENSSL_sk_zero(ossl_check_POLICYQUALINFO_sk_type(sk))
#define sk_POLICYQUALINFO_delete(sk, i) ((POLICYQUALINFO
*)OPENSSL_sk_delete(ossl_check_POLICYQUALINFO_sk_type(sk), (i)))
#define sk_POLICYQUALINFO_delete_ptr(sk, ptr) ((POLICYQUALINFO
*)OPENSSL_sk_delete_ptr(ossl_check_POLICYQUALINFO_sk_type(sk),
ossl_check_POLICYQUALINFO_type(ptr)))
#define sk_POLICYQUALINFO_push(sk, ptr) OPENSSL_sk_push(ossl_check_POLICYQUALINFO_sk_type(sk),
ossl_check_POLICYQUALINFO_type(ptr))
#define sk_POLICYQUALINFO_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_POLICYQUALINFO_sk_type(sk), ossl_check_POLICYQUALINFO_type(ptr))
#define sk_POLICYQUALINFO_pop(sk) ((POLICYQUALINFO
*)OPENSSL_sk_pop(ossl_check_POLICYQUALINFO_sk_type(sk)))
#define sk_POLICYQUALINFO_shift(sk) ((POLICYQUALINFO
*)OPENSSL_sk_shift(ossl_check_POLICYQUALINFO_sk_type(sk)))
#define sk_POLICYQUALINFO_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_POLICYQUALINFO_sk_type(sk),ossl_check_POLICYQUALINFO_freefunc
_type(freefunc))
#define
 sk_POLICYQUALINFO_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_POLICYQUALINFO_sk_type(sk),
ossl_check_POLICYQUALINFO_type(ptr), (idx))
#define sk_POLICYQUALINFO_set(sk, idx, ptr) ((POLICYQUALINFO
*)OPENSSL_sk_set(ossl_check_POLICYQUALINFO_sk_type(sk), (idx),
ossl_check_POLICYQUALINFO_type(ptr)))
#define sk_POLICYQUALINFO_find(sk, ptr) OPENSSL_sk_find(ossl_check_POLICYQUALINFO_sk_type(sk),
ossl_check_POLICYQUALINFO_type(ptr))
#define sk_POLICYQUALINFO_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_POLICYQUALINFO_sk_type(sk),
ossl_check_POLICYQUALINFO_type(ptr))
#define sk_POLICYQUALINFO_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_POLICYQUALINFO_sk_type(sk), ossl_check_POLICYQUALINFO_type(ptr),
pnum)
#define sk_POLICYQUALINFO_sort(sk) OPENSSL_sk_sort(ossl_check_POLICYQUALINFO_sk_type(sk))
#define sk_POLICYQUALINFO_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_POLICYQUALINFO_sk_type(sk))
```

```
#define sk_POLICYQUALINFO_dup(sk) ((STACK_OF(POLICYQUALINFO)
 *)OPENSSL_sk_dup(ossl_check_const_POLICYQUALINFO_sk_type(sk)))
#define sk_POLICYQUALINFO_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(POLICYQUALINFO)
*)OPENSSL_sk_deep_copy(ossl_check_const_POLICYQUALINFO_sk_type(sk),
ossl_check_POLICYQUALINFO_copyfunc_type(copyfunc),
ossl_check_POLICYQUALINFO_freefunc_type(freefunc)))
#define sk_POLICYQUALINFO_set_cmp_func(sk, cmp)
((sk_POLICYQUALINFO_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_POLICYQUALINFO_sk_type(sk),
ossl_check_POLICYQUALINFO_compfunc_type(cmp)))



typedef struct POLICYINFO_st {
   ASN1_OBJECT *policyid;
   STACK_OF(POLICYQUALINFO) *qualifiers;
} POLICYINFO;

SKM_DEFINE_STACK_OF_INTERNAL(POLICYINFO, POLICYINFO, POLICYINFO)
#define sk_POLICYINFO_num(sk) OPENSSL_sk_num(ossl_check_const_POLICYINFO_sk_type(sk))
#define sk_POLICYINFO_value(sk, idx) ((POLICYINFO
*)OPENSSL_sk_value(ossl_check_const_POLICYINFO_sk_type(sk), (idx)))
#define sk_POLICYINFO_new(cmp) ((STACK_OF(POLICYINFO)
*)OPENSSL_sk_new(ossl_check_POLICYINFO_compfunc_type(cmp)))
#define
 sk_POLICYINFO_new_null() ((STACK_OF(POLICYINFO) *)OPENSSL_sk_new_null())
#define sk_POLICYINFO_new_reserve(cmp, n) ((STACK_OF(POLICYINFO)
*)OPENSSL_sk_new_reserve(ossl_check_POLICYINFO_compfunc_type(cmp), (n)))
#define sk_POLICYINFO_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_POLICYINFO_sk_type(sk), (n))
#define sk_POLICYINFO_free(sk) OPENSSL_sk_free(ossl_check_POLICYINFO_sk_type(sk))
#define sk_POLICYINFO_zero(sk) OPENSSL_sk_zero(ossl_check_POLICYINFO_sk_type(sk))
#define sk_POLICYINFO_delete(sk, i) ((POLICYINFO
*)OPENSSL_sk_delete(ossl_check_POLICYINFO_sk_type(sk), (i)))
#define sk_POLICYINFO_delete_ptr(sk, ptr) ((POLICYINFO
*)OPENSSL_sk_delete_ptr(ossl_check_POLICYINFO_sk_type(sk), ossl_check_POLICYINFO_type(ptr)))
#define sk_POLICYINFO_push(sk, ptr) OPENSSL_sk_push(ossl_check_POLICYINFO_sk_type(sk),
ossl_check_POLICYINFO_type(ptr))
#define sk_POLICYINFO_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_POLICYINFO_sk_type(sk),
ossl_check_POLICYINFO_type(ptr))
#define
 sk_POLICYINFO_pop(sk) ((POLICYINFO *)OPENSSL_sk_pop(ossl_check_POLICYINFO_sk_type(sk)))
#define sk_POLICYINFO_shift(sk) ((POLICYINFO
*)OPENSSL_sk_shift(ossl_check_POLICYINFO_sk_type(sk)))
#define sk_POLICYINFO_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_POLICYINFO_sk_type(sk),ossl_check_POLICYINFO_freefunc_type(freefun
c))
#define sk_POLICYINFO_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_POLICYINFO_sk_type(sk),
ossl_check_POLICYINFO_type(ptr), (idx))
#define sk_POLICYINFO_set(sk, idx, ptr) ((POLICYINFO
```

```
*)OPENSSL_sk_set(ossl_check_POLICYINFO_sk_type(sk), (idx), ossl_check_POLICYINFO_type(ptr)))
#define sk_POLICYINFO_find(sk, ptr) OPENSSL_sk_find(ossl_check_POLICYINFO_sk_type(sk),
ossl_check_POLICYINFO_type(ptr))
#define sk_POLICYINFO_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_POLICYINFO_sk_type(sk),
ossl_check_POLICYINFO_type(ptr))
#define sk_POLICYINFO_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_POLICYINFO_sk_type(sk),
ossl_check_POLICYINFO_type(ptr),
 pnum)
#define sk_POLICYINFO_sort(sk) OPENSSL_sk_sort(ossl_check_POLICYINFO_sk_type(sk))
#define sk_POLICYINFO_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_POLICYINFO_sk_type(sk))
#define sk_POLICYINFO_dup(sk) ((STACK_OF(POLICYINFO)
*)OPENSSL_sk_dup(ossl_check_const_POLICYINFO_sk_type(sk)))
#define sk_POLICYINFO_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(POLICYINFO)
*)OPENSSL_sk_deep_copy(ossl_check_const_POLICYINFO_sk_type(sk),
ossl_check_POLICYINFO_copyfunc_type(copyfunc), ossl_check_POLICYINFO_freefunc_type(freefunc)))
#define sk_POLICYINFO_set_cmp_func(sk, cmp)
((sk_POLICYINFO_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_POLICYINFO_sk_type(sk),
ossl_check_POLICYINFO_compfunc_type(cmp)))


typedef STACK_OF(POLICYINFO) CERTIFICATEPOLICIES;

typedef struct POLICY_MAPPING_st {
   ASN1_OBJECT *issuerDomainPolicy;
   ASN1_OBJECT *subjectDomainPolicy;
} POLICY_MAPPING;

SKM_DEFINE_STACK_OF_INTERNAL(POLICY_MAPPING, POLICY_MAPPING, POLICY_MAPPING)
#define sk_POLICY_MAPPING_num(sk)
 OPENSSL_sk_num(ossl_check_const_POLICY_MAPPING_sk_type(sk))
#define sk_POLICY_MAPPING_value(sk, idx) ((POLICY_MAPPING
*)OPENSSL_sk_value(ossl_check_const_POLICY_MAPPING_sk_type(sk), (idx)))
#define sk_POLICY_MAPPING_new(cmp) ((STACK_OF(POLICY_MAPPING)
*)OPENSSL_sk_new(ossl_check_POLICY_MAPPING_compfunc_type(cmp)))
#define sk_POLICY_MAPPING_new_null() ((STACK_OF(POLICY_MAPPING) *)OPENSSL_sk_new_null())
#define sk_POLICY_MAPPING_new_reserve(cmp, n) ((STACK_OF(POLICY_MAPPING)
*)OPENSSL_sk_new_reserve(ossl_check_POLICY_MAPPING_compfunc_type(cmp), (n)))
#define sk_POLICY_MAPPING_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_POLICY_MAPPING_sk_type(sk), (n))
#define sk_POLICY_MAPPING_free(sk) OPENSSL_sk_free(ossl_check_POLICY_MAPPING_sk_type(sk))
#define sk_POLICY_MAPPING_zero(sk) OPENSSL_sk_zero(ossl_check_POLICY_MAPPING_sk_type(sk))
#define sk_POLICY_MAPPING_delete(sk, i) ((POLICY_MAPPING
*)OPENSSL_sk_delete(ossl_check_POLICY_MAPPING_sk_type(sk), (i)))
#define sk_POLICY_MAPPING_delete_ptr(sk,
 ptr) ((POLICY_MAPPING *)OPENSSL_sk_delete_ptr(ossl_check_POLICY_MAPPING_sk_type(sk),
ossl_check_POLICY_MAPPING_type(ptr)))
#define sk_POLICY_MAPPING_push(sk, ptr) OPENSSL_sk_push(ossl_check_POLICY_MAPPING_sk_type(sk),
ossl_check_POLICY_MAPPING_type(ptr))
```

```
#define sk_POLICY_MAPPING_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_POLICY_MAPPING_sk_type(sk), ossl_check_POLICY_MAPPING_type(ptr))
#define sk_POLICY_MAPPING_pop(sk) ((POLICY_MAPPING
*)OPENSSL_sk_pop(ossl_check_POLICY_MAPPING_sk_type(sk)))
#define sk_POLICY_MAPPING_shift(sk) ((POLICY_MAPPING
*)OPENSSL_sk_shift(ossl_check_POLICY_MAPPING_sk_type(sk)))
#define sk_POLICY_MAPPING_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_POLICY_MAPPING_sk_type(sk),ossl_check_POLICY_MAPPING_freefunc
_type(freefunc))
#define sk_POLICY_MAPPING_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_POLICY_MAPPING_sk_type(sk), ossl_check_POLICY_MAPPING_type(ptr),
(idx))
#define sk_POLICY_MAPPING_set(sk, idx, ptr) ((POLICY_MAPPING
*)OPENSSL_sk_set(ossl_check_POLICY_MAPPING_sk_type(sk),
 (idx), ossl_check_POLICY_MAPPING_type(ptr)))
#define sk_POLICY_MAPPING_find(sk, ptr) OPENSSL_sk_find(ossl_check_POLICY_MAPPING_sk_type(sk),
ossl_check_POLICY_MAPPING_type(ptr))
#define sk_POLICY_MAPPING_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_POLICY_MAPPING_sk_type(sk), ossl_check_POLICY_MAPPING_type(ptr))
#define sk_POLICY_MAPPING_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_POLICY_MAPPING_sk_type(sk), ossl_check_POLICY_MAPPING_type(ptr),
pnum)
#define sk_POLICY_MAPPING_sort(sk) OPENSSL_sk_sort(ossl_check_POLICY_MAPPING_sk_type(sk))
#define sk_POLICY_MAPPING_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_POLICY_MAPPING_sk_type(sk))
#define sk_POLICY_MAPPING_dup(sk) ((STACK_OF(POLICY_MAPPING)
*)OPENSSL_sk_dup(ossl_check_const_POLICY_MAPPING_sk_type(sk)))
#define sk_POLICY_MAPPING_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(POLICY_MAPPING)
*)OPENSSL_sk_deep_copy(ossl_check_const_POLICY_MAPPING_sk_type(sk),
ossl_check_POLICY_MAPPING_copyfunc_type(copyfunc),
 ossl_check_POLICY_MAPPING_freefunc_type(freefunc)))
#define sk_POLICY_MAPPING_set_cmp_func(sk, cmp)
((sk_POLICY_MAPPING_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_POLICY_MAPPING_sk_type(sk),
ossl_check_POLICY_MAPPING_compfunc_type(cmp)))


typedef STACK_OF(POLICY_MAPPING) POLICY_MAPPINGS;

typedef struct GENERAL_SUBTREE_st {
   GENERAL_NAME *base;
   ASN1_INTEGER *minimum;
   ASN1_INTEGER *maximum;
} GENERAL_SUBTREE;

SKM_DEFINE_STACK_OF_INTERNAL(GENERAL_SUBTREE, GENERAL_SUBTREE,
GENERAL_SUBTREE)
#define sk_GENERAL_SUBTREE_num(sk)
OPENSSL_sk_num(ossl_check_const_GENERAL_SUBTREE_sk_type(sk))
```

```
#define sk_GENERAL_SUBTREE_value(sk, idx) ((GENERAL_SUBTREE
*)OPENSSL_sk_value(ossl_check_const_GENERAL_SUBTREE_sk_type(sk), (idx)))
#define sk_GENERAL_SUBTREE_new(cmp) ((STACK_OF(GENERAL_SUBTREE)
*)OPENSSL_sk_new(ossl_check_GENERAL_SUBTREE_compfunc_type(cmp)))
#define sk_GENERAL_SUBTREE_new_null() ((STACK_OF(GENERAL_SUBTREE)
*)OPENSSL_sk_new_null())
#define
 sk_GENERAL_SUBTREE_new_reserve(cmp, n) ((STACK_OF(GENERAL_SUBTREE)
*)OPENSSL_sk_new_reserve(ossl_check_GENERAL_SUBTREE_compfunc_type(cmp), (n)))
#define sk_GENERAL_SUBTREE_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_GENERAL_SUBTREE_sk_type(sk), (n))
#define sk_GENERAL_SUBTREE_free(sk) OPENSSL_sk_free(ossl_check_GENERAL_SUBTREE_sk_type(sk))
#define sk_GENERAL_SUBTREE_zero(sk) OPENSSL_sk_zero(ossl_check_GENERAL_SUBTREE_sk_type(sk))
#define sk_GENERAL_SUBTREE_delete(sk, i) ((GENERAL_SUBTREE
*)OPENSSL_sk_delete(ossl_check_GENERAL_SUBTREE_sk_type(sk), (i)))
#define sk_GENERAL_SUBTREE_delete_ptr(sk, ptr) ((GENERAL_SUBTREE
*)OPENSSL_sk_delete_ptr(ossl_check_GENERAL_SUBTREE_sk_type(sk),
ossl_check_GENERAL_SUBTREE_type(ptr)))
#define sk_GENERAL_SUBTREE_push(sk, ptr)
OPENSSL_sk_push(ossl_check_GENERAL_SUBTREE_sk_type(sk),
ossl_check_GENERAL_SUBTREE_type(ptr))
#define sk_GENERAL_SUBTREE_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_GENERAL_SUBTREE_sk_type(sk),
ossl_check_GENERAL_SUBTREE_type(ptr))
#define
 sk_GENERAL_SUBTREE_pop(sk) ((GENERAL_SUBTREE
*)OPENSSL_sk_pop(ossl_check_GENERAL_SUBTREE_sk_type(sk)))
#define sk_GENERAL_SUBTREE_shift(sk) ((GENERAL_SUBTREE
*)OPENSSL_sk_shift(ossl_check_GENERAL_SUBTREE_sk_type(sk)))
#define sk_GENERAL_SUBTREE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_GENERAL_SUBTREE_sk_type(sk),ossl_check_GENERAL_SUBTREE_free
func_type(freefunc))
#define sk_GENERAL_SUBTREE_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_GENERAL_SUBTREE_sk_type(sk),
ossl_check_GENERAL_SUBTREE_type(ptr), (idx))
#define sk_GENERAL_SUBTREE_set(sk, idx, ptr) ((GENERAL_SUBTREE
*)OPENSSL_sk_set(ossl_check_GENERAL_SUBTREE_sk_type(sk), (idx),
ossl_check_GENERAL_SUBTREE_type(ptr)))
#define sk_GENERAL_SUBTREE_find(sk, ptr)
OPENSSL_sk_find(ossl_check_GENERAL_SUBTREE_sk_type(sk),
ossl_check_GENERAL_SUBTREE_type(ptr))
#define sk_GENERAL_SUBTREE_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_GENERAL_SUBTREE_sk_type(sk),
ossl_check_GENERAL_SUBTREE_type(ptr))
#define sk_GENERAL_SUBTREE_find_all(sk,
 ptr, pnum) OPENSSL_sk_find_all(ossl_check_GENERAL_SUBTREE_sk_type(sk),
ossl_check_GENERAL_SUBTREE_type(ptr), pnum)
#define sk_GENERAL_SUBTREE_sort(sk) OPENSSL_sk_sort(ossl_check_GENERAL_SUBTREE_sk_type(sk))
```

```
#define sk_GENERAL_SUBTREE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_GENERAL_SUBTREE_sk_type(sk))
#define sk_GENERAL_SUBTREE_dup(sk) ((STACK_OF(GENERAL_SUBTREE)
*)OPENSSL_sk_dup(ossl_check_const_GENERAL_SUBTREE_sk_type(sk)))
#define sk_GENERAL_SUBTREE_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(GENERAL_SUBTREE)
*)OPENSSL_sk_deep_copy(ossl_check_const_GENERAL_SUBTREE_sk_type(sk),
ossl_check_GENERAL_SUBTREE_copyfunc_type(copyfunc),
ossl_check_GENERAL_SUBTREE_freefunc_type(freefunc)))
#define sk_GENERAL_SUBTREE_set_cmp_func(sk, cmp)
((sk_GENERAL_SUBTREE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_GENERAL_SUBTREE_sk_type
(sk), ossl_check_GENERAL_SUBTREE_compfunc_type(cmp)))


struct NAME_CONSTRAINTS_st {
  STACK_OF(GENERAL_SUBTREE) *permittedSubtrees;
   STACK_OF(GENERAL_SUBTREE) *excludedSubtrees;
};

typedef struct POLICY_CONSTRAINTS_st {
  ASN1_INTEGER *requireExplicitPolicy;
  ASN1_INTEGER *inhibitPolicyMapping;
} POLICY_CONSTRAINTS;

/* Proxy certificate structures, see RFC 3820 */
typedef struct PROXY_POLICY_st {
  ASN1_OBJECT *policyLanguage;
  ASN1_OCTET_STRING *policy;
} PROXY_POLICY;

typedef struct PROXY_CERT_INFO_EXTENSION_st {
  ASN1_INTEGER *pcPathLengthConstraint;
  PROXY_POLICY *proxyPolicy;
} PROXY_CERT_INFO_EXTENSION;

DECLARE_ASN1_FUNCTIONS(PROXY_POLICY)
DECLARE_ASN1_FUNCTIONS(PROXY_CERT_INFO_EXTENSION)

struct ISSUING_DIST_POINT_st {
  DIST_POINT_NAME *distpoint;
  int onlyuser;
  int onlyCA;
  ASN1_BIT_STRING *onlysomereasons;
  int indirectCRL;
  int onlyattr;
};

/* Values in idp_flags field */
/* IDP present */
```

```
# define IDP_PRESENT     0x1
/* IDP values inconsistent */
# define IDP_INVALID     0x2
/* onlyuser true */
# define IDP_ONLYUSER    0x4
/* onlyCA true */
# define IDP_ONLYCA
     0x8
/* onlyattr true */
# define IDP_ONLYATTR    0x10
/* indirectCRL true */
# define IDP_INDIRECT    0x20
/* onlysomereasons present */
# define IDP_REASONS     0x40

# define X509V3_conf_err(val) ERR_add_error_data(6, \
                "section:", (val)->section, \
                ",name:", (val)->name, ",value:", (val)->value)

# define X509V3_set_ctx_test(ctx) \
  X509V3_set_ctx(ctx, NULL, NULL, NULL, NULL, X509V3_CTX_TEST)
# define X509V3_set_ctx_nodb(ctx) (ctx)->db = NULL;

# define EXT_BITSTRING(nid, table) { nid, 0, ASN1_ITEM_ref(ASN1_BIT_STRING), \
                0,0,0,0, \
                0,0, \
                (X509V3_EXT_I2V)i2v_ASN1_BIT_STRING, \
                (X509V3_EXT_V2I)v2i_ASN1_BIT_STRING, \
                NULL, NULL, \
                table}

# define EXT_IA5STRING(nid) { nid, 0, ASN1_ITEM_ref(ASN1_IA5STRING), \
                0,0,0,0, \
                (X509V3_EXT_I2S)i2s_ASN1_IA5STRING,
 \
                (X509V3_EXT_S2I)s2i_ASN1_IA5STRING, \
                0,0,0,0, \
                NULL}

#define EXT_UTF8STRING(nid) { nid, 0, ASN1_ITEM_ref(ASN1_UTF8STRING), \
                0,0,0,0, \
                (X509V3_EXT_I2S)i2s_ASN1_UTF8STRING, \
                (X509V3_EXT_S2I)s2i_ASN1_UTF8STRING, \
                0,0,0,0, \
                NULL}

# define EXT_END { -1, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0}
```

```
/* X509_PURPOSE stuff */

# define EXFLAG_BCONS           0x1
# define EXFLAG_KUSAGE          0x2
# define EXFLAG_XKUSAGE         0x4
# define EXFLAG_NSCERT          0x8

# define EXFLAG_CA              0x10
# define EXFLAG_SI              0x20 /* self-issued, maybe not self-signed */
# define EXFLAG_V1              0x40
# define EXFLAG_INVALID         0x80
/* EXFLAG_SET is set to indicate that some values have been precomputed */
# define EXFLAG_SET             0x100
# define
 EXFLAG_CRITICAL        0x200
# define EXFLAG_PROXY           0x400

# define EXFLAG_INVALID_POLICY   0x800
# define EXFLAG_FRESHEST        0x1000
# define EXFLAG_SS              0x2000 /* cert is apparently self-signed */

# define EXFLAG_BCONS_CRITICAL   0x10000
# define EXFLAG_AKID_CRITICAL    0x20000
# define EXFLAG_SKID_CRITICAL    0x40000
# define EXFLAG_SAN_CRITICAL     0x80000
# define EXFLAG_NO_FINGERPRINT   0x100000

# define KU_DIGITAL_SIGNATURE    0x0080
# define KU_NON_REPUDIATION      0x0040
# define KU_KEY_ENCIPHERMENT     0x0020
# define KU_DATA_ENCIPHERMENT    0x0010
# define KU_KEY_AGREEMENT        0x0008
# define KU_KEY_CERT_SIGN        0x0004
# define KU_CRL_SIGN             0x0002
# define KU_ENCIPHER_ONLY        0x0001
# define KU_DECIPHER_ONLY        0x8000

# define NS_SSL_CLIENT          0x80
# define NS_SSL_SERVER          0x40
# define NS_SMIME               0x20
# define NS_OBJSIGN             0x10
# define NS_SSL_CA              0x04
# define NS_SMIME_CA
           0x02
# define NS_OBJSIGN_CA          0x01
# define NS_ANY_CA              (NS_SSL_CA|NS_SMIME_CA|NS_OBJSIGN_CA)

# define XKU_SSL_SERVER         0x1
```

```
# define XKU_SSL_CLIENT         0x2
# define XKU_SMIME              0x4
# define XKU_CODE_SIGN          0x8
# define XKU_SGC                0x10 /* Netscape or MS Server-Gated Crypto */
# define XKU_OCSP_SIGN          0x20
# define XKU_TIMESTAMP          0x40
# define XKU_DVCS               0x80
# define XKU_ANYEKU             0x100

# define X509_PURPOSE_DYNAMIC    0x1
# define X509_PURPOSE_DYNAMIC_NAME       0x2

typedef struct x509_purpose_st {
   int purpose;
   int trust;                  /* Default trust ID */
   int flags;
   int (*check_purpose) (const struct x509_purpose_st *, const X509 *, int);
   char *name;
   char *sname;
   void *usr_data;
} X509_PURPOSE;

SKM_DEFINE_STACK_OF_INTERNAL(X509_PURPOSE, X509_PURPOSE, X509_PURPOSE)
#define sk_X509_PURPOSE_num(sk) OPENSSL_sk_num(ossl_check_const_X509_PURPOSE_sk_type(sk))
#define
 sk_X509_PURPOSE_value(sk, idx) ((X509_PURPOSE
*)OPENSSL_sk_value(ossl_check_const_X509_PURPOSE_sk_type(sk), (idx)))
#define sk_X509_PURPOSE_new(cmp) ((STACK_OF(X509_PURPOSE)
*)OPENSSL_sk_new(ossl_check_X509_PURPOSE_compfunc_type(cmp)))
#define sk_X509_PURPOSE_new_null() ((STACK_OF(X509_PURPOSE) *)OPENSSL_sk_new_null())
#define sk_X509_PURPOSE_new_reserve(cmp, n) ((STACK_OF(X509_PURPOSE)
*)OPENSSL_sk_new_reserve(ossl_check_X509_PURPOSE_compfunc_type(cmp), (n)))
#define sk_X509_PURPOSE_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_X509_PURPOSE_sk_type(sk), (n))
#define sk_X509_PURPOSE_free(sk) OPENSSL_sk_free(ossl_check_X509_PURPOSE_sk_type(sk))
#define sk_X509_PURPOSE_zero(sk) OPENSSL_sk_zero(ossl_check_X509_PURPOSE_sk_type(sk))
#define sk_X509_PURPOSE_delete(sk, i) ((X509_PURPOSE
*)OPENSSL_sk_delete(ossl_check_X509_PURPOSE_sk_type(sk), (i)))
#define sk_X509_PURPOSE_delete_ptr(sk, ptr) ((X509_PURPOSE
*)OPENSSL_sk_delete_ptr(ossl_check_X509_PURPOSE_sk_type(sk),
 ossl_check_X509_PURPOSE_type(ptr)))
#define sk_X509_PURPOSE_push(sk, ptr) OPENSSL_sk_push(ossl_check_X509_PURPOSE_sk_type(sk),
ossl_check_X509_PURPOSE_type(ptr))
#define sk_X509_PURPOSE_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_X509_PURPOSE_sk_type(sk),
ossl_check_X509_PURPOSE_type(ptr))
#define sk_X509_PURPOSE_pop(sk) ((X509_PURPOSE
*)OPENSSL_sk_pop(ossl_check_X509_PURPOSE_sk_type(sk)))
#define sk_X509_PURPOSE_shift(sk) ((X509_PURPOSE
*)OPENSSL_sk_shift(ossl_check_X509_PURPOSE_sk_type(sk)))
```

```
#define sk_X509_PURPOSE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_PURPOSE_sk_type(sk),ossl_check_X509_PURPOSE_freefunc_type(fr
eefunc))
#define sk_X509_PURPOSE_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_X509_PURPOSE_sk_type(sk),
ossl_check_X509_PURPOSE_type(ptr), (idx))
#define sk_X509_PURPOSE_set(sk, idx, ptr) ((X509_PURPOSE
*)OPENSSL_sk_set(ossl_check_X509_PURPOSE_sk_type(sk), (idx), ossl_check_X509_PURPOSE_type(ptr)))
#define sk_X509_PURPOSE_find(sk, ptr) OPENSSL_sk_find(ossl_check_X509_PURPOSE_sk_type(sk),
 ossl_check_X509_PURPOSE_type(ptr))
#define sk_X509_PURPOSE_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_X509_PURPOSE_sk_type(sk),
ossl_check_X509_PURPOSE_type(ptr))
#define sk_X509_PURPOSE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509_PURPOSE_sk_type(sk), ossl_check_X509_PURPOSE_type(ptr), pnum)
#define sk_X509_PURPOSE_sort(sk) OPENSSL_sk_sort(ossl_check_X509_PURPOSE_sk_type(sk))
#define sk_X509_PURPOSE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_X509_PURPOSE_sk_type(sk))
#define sk_X509_PURPOSE_dup(sk) ((STACK_OF(X509_PURPOSE)
*)OPENSSL_sk_dup(ossl_check_const_X509_PURPOSE_sk_type(sk)))
#define sk_X509_PURPOSE_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_PURPOSE)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_PURPOSE_sk_type(sk),
ossl_check_X509_PURPOSE_copyfunc_type(copyfunc), ossl_check_X509_PURPOSE_freefunc_type(freefunc)))
#define sk_X509_PURPOSE_set_cmp_func(sk, cmp)
((sk_X509_PURPOSE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_PURPOSE_sk_type(sk),
 ossl_check_X509_PURPOSE_compfunc_type(cmp)))



# define X509_PURPOSE_SSL_CLIENT        1
# define X509_PURPOSE_SSL_SERVER        2
# define X509_PURPOSE_NS_SSL_SERVER     3
# define X509_PURPOSE_SMIME_SIGN        4
# define X509_PURPOSE_SMIME_ENCRYPT     5
# define X509_PURPOSE_CRL_SIGN          6
# define X509_PURPOSE_ANY               7
# define X509_PURPOSE_OCSP_HELPER       8
# define X509_PURPOSE_TIMESTAMP_SIGN    9

# define X509_PURPOSE_MIN               1
# define X509_PURPOSE_MAX               9

/* Flags for X509V3_EXT_print() */

# define X509V3_EXT_UNKNOWN_MASK        (0xfL << 16)
/* Return error for unknown extensions */
# define X509V3_EXT_DEFAULT             0
/* Print error for unknown extensions */
# define X509V3_EXT_ERROR_UNKNOWN       (1L << 16)
/* ASN1 parse unknown extensions */
```

```
# define X509V3_EXT_PARSE_UNKNOWN       (2L << 16)
/* BIO_dump unknown extensions */
# define X509V3_EXT_DUMP_UNKNOWN
       (3L << 16)

/* Flags for X509V3_add1_i2d */

# define X509V3_ADD_OP_MASK             0xfL
# define X509V3_ADD_DEFAULT             0L
# define X509V3_ADD_APPEND              1L
# define X509V3_ADD_REPLACE             2L
# define X509V3_ADD_REPLACE_EXISTING     3L
# define X509V3_ADD_KEEP_EXISTING        4L
# define X509V3_ADD_DELETE              5L
# define X509V3_ADD_SILENT              0x10

DECLARE_ASN1_FUNCTIONS(BASIC_CONSTRAINTS)

DECLARE_ASN1_FUNCTIONS(SXNET)
DECLARE_ASN1_FUNCTIONS(SXNETID)

DECLARE_ASN1_FUNCTIONS(ISSUER_SIGN_TOOL)

int SXNET_add_id_asc(SXNET **psx, const char *zone, const char *user, int userlen);
int SXNET_add_id_ulong(SXNET **psx, unsigned long lzone, const char *user,
                    int userlen);
int SXNET_add_id_INTEGER(SXNET **psx, ASN1_INTEGER *izone, const char *user,
                     int userlen);

ASN1_OCTET_STRING *SXNET_get_id_asc(SXNET *sx, const char *zone);
ASN1_OCTET_STRING *SXNET_get_id_ulong(SXNET *sx, unsigned long lzone);
ASN1_OCTET_STRING
 *SXNET_get_id_INTEGER(SXNET *sx, ASN1_INTEGER *zone);

DECLARE_ASN1_FUNCTIONS(AUTHORITY_KEYID)

DECLARE_ASN1_FUNCTIONS(PKEY_USAGE_PERIOD)

DECLARE_ASN1_FUNCTIONS(GENERAL_NAME)
DECLARE_ASN1_DUP_FUNCTION(GENERAL_NAME)
int GENERAL_NAME_cmp(GENERAL_NAME *a, GENERAL_NAME *b);

ASN1_BIT_STRING *v2i_ASN1_BIT_STRING(X509V3_EXT_METHOD *method,
                             X509V3_CTX *ctx,
                             STACK_OF(CONF_VALUE) *nval);
STACK_OF(CONF_VALUE) *i2v_ASN1_BIT_STRING(X509V3_EXT_METHOD *method,
                                ASN1_BIT_STRING *bits,
                                STACK_OF(CONF_VALUE) *extlist);
```

```
char *i2s_ASN1_IA5STRING(X509V3_EXT_METHOD *method, ASN1_IA5STRING *ia5);
ASN1_IA5STRING *s2i_ASN1_IA5STRING(X509V3_EXT_METHOD *method,
                        X509V3_CTX *ctx, const char *str);
char *i2s_ASN1_UTF8STRING(X509V3_EXT_METHOD *method, ASN1_UTF8STRING *utf8);
ASN1_UTF8STRING *s2i_ASN1_UTF8STRING(X509V3_EXT_METHOD
 *method,
                        X509V3_CTX *ctx, const char *str);

STACK_OF(CONF_VALUE) *i2v_GENERAL_NAME(X509V3_EXT_METHOD *method,
                          GENERAL_NAME *gen,
                          STACK_OF(CONF_VALUE) *ret);
int GENERAL_NAME_print(BIO *out, GENERAL_NAME *gen);

DECLARE_ASN1_FUNCTIONS(GENERAL_NAMES)

STACK_OF(CONF_VALUE) *i2v_GENERAL_NAMES(X509V3_EXT_METHOD *method,
                           GENERAL_NAMES *gen,
                           STACK_OF(CONF_VALUE) *extlist);
GENERAL_NAMES *v2i_GENERAL_NAMES(const X509V3_EXT_METHOD *method,
                      X509V3_CTX *ctx, STACK_OF(CONF_VALUE) *nval);

DECLARE_ASN1_FUNCTIONS(OTHERNAME)
DECLARE_ASN1_FUNCTIONS(EDIPARTYNAME)
int OTHERNAME_cmp(OTHERNAME *a, OTHERNAME *b);
void GENERAL_NAME_set0_value(GENERAL_NAME *a, int type, void *value);
void *GENERAL_NAME_get0_value(const GENERAL_NAME *a, int *ptype);
int GENERAL_NAME_set0_othername(GENERAL_NAME
 *gen,
                      ASN1_OBJECT *oid, ASN1_TYPE *value);
int GENERAL_NAME_get0_otherName(const GENERAL_NAME *gen,
                      ASN1_OBJECT **poid, ASN1_TYPE **pvalue);

char *i2s_ASN1_OCTET_STRING(X509V3_EXT_METHOD *method,
                    const ASN1_OCTET_STRING *ia5);
ASN1_OCTET_STRING *s2i_ASN1_OCTET_STRING(X509V3_EXT_METHOD *method,
                           X509V3_CTX *ctx, const char *str);

DECLARE_ASN1_FUNCTIONS(EXTENDED_KEY_USAGE)
int i2a_ACCESS_DESCRIPTION(BIO *bp, const ACCESS_DESCRIPTION *a);

DECLARE_ASN1_ALLOC_FUNCTIONS(TLS_FEATURE)

DECLARE_ASN1_FUNCTIONS(CERTIFICATEPOLICIES)
DECLARE_ASN1_FUNCTIONS(POLICYINFO)
DECLARE_ASN1_FUNCTIONS(POLICYQUALINFO)
DECLARE_ASN1_FUNCTIONS(USERNOTICE)
DECLARE_ASN1_FUNCTIONS(NOTICEREF)
```

```
DECLARE_ASN1_FUNCTIONS(CRL_DIST_POINTS)
DECLARE_ASN1_FUNCTIONS(DIST_POINT)
DECLARE_ASN1_FUNCTIONS(DIST_POINT_NAME)
DECLARE_ASN1_FUNCTIONS(ISSUING_DIST_POINT)

int
 DIST_POINT_set_dpname(DIST_POINT_NAME *dpn, const X509_NAME *iname);

int NAME_CONSTRAINTS_check(X509 *x, NAME_CONSTRAINTS *nc);
int NAME_CONSTRAINTS_check_CN(X509 *x, NAME_CONSTRAINTS *nc);

DECLARE_ASN1_FUNCTIONS(ACCESS_DESCRIPTION)
DECLARE_ASN1_FUNCTIONS(AUTHORITY_INFO_ACCESS)

DECLARE_ASN1_ITEM(POLICY_MAPPING)
DECLARE_ASN1_ALLOC_FUNCTIONS(POLICY_MAPPING)
DECLARE_ASN1_ITEM(POLICY_MAPPINGS)

DECLARE_ASN1_ITEM(GENERAL_SUBTREE)
DECLARE_ASN1_ALLOC_FUNCTIONS(GENERAL_SUBTREE)

DECLARE_ASN1_ITEM(NAME_CONSTRAINTS)
DECLARE_ASN1_ALLOC_FUNCTIONS(NAME_CONSTRAINTS)

DECLARE_ASN1_ALLOC_FUNCTIONS(POLICY_CONSTRAINTS)
DECLARE_ASN1_ITEM(POLICY_CONSTRAINTS)

GENERAL_NAME *a2i_GENERAL_NAME(GENERAL_NAME *out,
                        const X509V3_EXT_METHOD *method,
                        X509V3_CTX *ctx, int gen_type,
                        const char *value, int is_nc);

# ifdef OPENSSL_CONF_H
GENERAL_NAME *v2i_GENERAL_NAME(const X509V3_EXT_METHOD *method,

            X509V3_CTX *ctx, CONF_VALUE *cnf);
GENERAL_NAME *v2i_GENERAL_NAME_ex(GENERAL_NAME *out,
                          const X509V3_EXT_METHOD *method,
                          X509V3_CTX *ctx, CONF_VALUE *cnf,
                          int is_nc);

void X509V3_conf_free(CONF_VALUE *val);

X509_EXTENSION *X509V3_EXT_nconf_nid(CONF *conf, X509V3_CTX *ctx, int ext_nid,
                             const char *value);
X509_EXTENSION *X509V3_EXT_nconf(CONF *conf, X509V3_CTX *ctx, const char *name,
                         const char *value);
int X509V3_EXT_add_nconf_sk(CONF *conf, X509V3_CTX *ctx, const char *section,
```

```
                    STACK_OF(X509_EXTENSION) **sk);
int X509V3_EXT_add_nconf(CONF *conf, X509V3_CTX *ctx, const char *section,
                   X509 *cert);
int X509V3_EXT_REQ_add_nconf(CONF *conf, X509V3_CTX *ctx, const char *section,
                    X509_REQ *req);
int X509V3_EXT_CRL_add_nconf(CONF
 *conf, X509V3_CTX *ctx, const char *section,
                    X509_CRL *crl);

X509_EXTENSION *X509V3_EXT_conf_nid(LHASH_OF(CONF_VALUE) *conf,
                         X509V3_CTX *ctx, int ext_nid,
                         const char *value);
X509_EXTENSION *X509V3_EXT_conf(LHASH_OF(CONF_VALUE) *conf, X509V3_CTX *ctx,
                       const char *name, const char *value);
int X509V3_EXT_add_conf(LHASH_OF(CONF_VALUE) *conf, X509V3_CTX *ctx,
                  const char *section, X509 *cert);
int X509V3_EXT_REQ_add_conf(LHASH_OF(CONF_VALUE) *conf, X509V3_CTX *ctx,
                    const char *section, X509_REQ *req);
int X509V3_EXT_CRL_add_conf(LHASH_OF(CONF_VALUE) *conf, X509V3_CTX *ctx,
                    const char *section, X509_CRL *crl);

int X509V3_add_value_bool_nf(const char *name, int asn1_bool,
                     STACK_OF(CONF_VALUE) **extlist);
int X509V3_get_value_bool(const CONF_VALUE *value,
 int *asn1_bool);
int X509V3_get_value_int(const CONF_VALUE *value, ASN1_INTEGER **aint);
void X509V3_set_nconf(X509V3_CTX *ctx, CONF *conf);
void X509V3_set_conf_lhash(X509V3_CTX *ctx, LHASH_OF(CONF_VALUE) *lhash);
# endif

char *X509V3_get_string(X509V3_CTX *ctx, const char *name, const char *section);
STACK_OF(CONF_VALUE) *X509V3_get_section(X509V3_CTX *ctx, const char *section);
void X509V3_string_free(X509V3_CTX *ctx, char *str);
void X509V3_section_free(X509V3_CTX *ctx, STACK_OF(CONF_VALUE) *section);
void X509V3_set_ctx(X509V3_CTX *ctx, X509 *issuer, X509 *subject,
                X509_REQ *req, X509_CRL *crl, int flags);
/* For API backward compatibility, this is separate from X509V3_set_ctx(): */
int X509V3_set_issuer_pkey(X509V3_CTX *ctx, EVP_PKEY *pkey);

int X509V3_add_value(const char *name, const char *value,
                 STACK_OF(CONF_VALUE) **extlist);
int X509V3_add_value_uchar(const char *name, const unsigned char *value,
                   STACK_OF(CONF_VALUE)
 **extlist);
int X509V3_add_value_bool(const char *name, int asn1_bool,
                   STACK_OF(CONF_VALUE) **extlist);
int X509V3_add_value_int(const char *name, const ASN1_INTEGER *aint,
                   STACK_OF(CONF_VALUE) **extlist);
```

```
char *i2s_ASN1_INTEGER(X509V3_EXT_METHOD *meth, const ASN1_INTEGER *aint);
ASN1_INTEGER *s2i_ASN1_INTEGER(X509V3_EXT_METHOD *meth, const char *value);
char *i2s_ASN1_ENUMERATED(X509V3_EXT_METHOD *meth, const ASN1_ENUMERATED *aint);
char *i2s_ASN1_ENUMERATED_TABLE(X509V3_EXT_METHOD *meth,
                        const ASN1_ENUMERATED *aint);
int X509V3_EXT_add(X509V3_EXT_METHOD *ext);
int X509V3_EXT_add_list(X509V3_EXT_METHOD *extlist);
int X509V3_EXT_add_alias(int nid_to, int nid_from);
void X509V3_EXT_cleanup(void);

const X509V3_EXT_METHOD *X509V3_EXT_get(X509_EXTENSION *ext);
const X509V3_EXT_METHOD *X509V3_EXT_get_nid(int nid);
int X509V3_add_standard_extensions(void);
STACK_OF(CONF_VALUE) *X509V3_parse_list(const
 char *line);
void *X509V3_EXT_d2i(X509_EXTENSION *ext);
void *X509V3_get_d2i(const STACK_OF(X509_EXTENSION) *x, int nid, int *crit,
                int *idx);

X509_EXTENSION *X509V3_EXT_i2d(int ext_nid, int crit, void *ext_struc);
int X509V3_add1_i2d(STACK_OF(X509_EXTENSION) **x, int nid, void *value,
                int crit, unsigned long flags);

#ifndef OPENSSL_NO_DEPRECATED_1_1_0
/* The new declarations are in crypto.h, but the old ones were here. */
# define hex_to_string OPENSSL_buf2hexstr
# define string_to_hex OPENSSL_hexstr2buf
#endif

void X509V3_EXT_val_prn(BIO *out, STACK_OF(CONF_VALUE) *val, int indent,
                    int ml);
int X509V3_EXT_print(BIO *out, X509_EXTENSION *ext, unsigned long flag,
                int indent);
#ifndef OPENSSL_NO_STDIO
int X509V3_EXT_print_fp(FILE *out, X509_EXTENSION *ext, int flag, int indent);
#endif
int X509V3_extensions_print(BIO *out, const char *title,
                        const STACK_OF(X509_EXTENSION)
 *exts,
                        unsigned long flag, int indent);

int X509_check_ca(X509 *x);
int X509_check_purpose(X509 *x, int id, int ca);
int X509_supported_extension(X509_EXTENSION *ex);
int X509_PURPOSE_set(int *p, int purpose);
int X509_check_issued(X509 *issuer, X509 *subject);
int X509_check_akid(const X509 *issuer, const AUTHORITY_KEYID *akid);
void X509_set_proxy_flag(X509 *x);
```

```
void X509_set_proxy_pathlen(X509 *x, long l);
long X509_get_proxy_pathlen(X509 *x);

uint32_t X509_get_extension_flags(X509 *x);
uint32_t X509_get_key_usage(X509 *x);
uint32_t X509_get_extended_key_usage(X509 *x);
const ASN1_OCTET_STRING *X509_get0_subject_key_id(X509 *x);
const ASN1_OCTET_STRING *X509_get0_authority_key_id(X509 *x);
const GENERAL_NAMES *X509_get0_authority_issuer(X509 *x);
const ASN1_INTEGER *X509_get0_authority_serial(X509 *x);

int X509_PURPOSE_get_count(void);
X509_PURPOSE *X509_PURPOSE_get0(int idx);
int X509_PURPOSE_get_by_sname(const char *sname);
int X509_PURPOSE_get_by_id(int
 id);
int X509_PURPOSE_add(int id, int trust, int flags,
                     int (*ck) (const X509_PURPOSE *, const X509 *, int),
                     const char *name, const char *sname, void *arg);
char *X509_PURPOSE_get0_name(const X509_PURPOSE *xp);
char *X509_PURPOSE_get0_sname(const X509_PURPOSE *xp);
int X509_PURPOSE_get_trust(const X509_PURPOSE *xp);
void X509_PURPOSE_cleanup(void);
int X509_PURPOSE_get_id(const X509_PURPOSE *);

STACK_OF(OPENSSL_STRING) *X509_get1_email(X509 *x);
STACK_OF(OPENSSL_STRING) *X509_REQ_get1_email(X509_REQ *x);
void X509_email_free(STACK_OF(OPENSSL_STRING) *sk);
STACK_OF(OPENSSL_STRING) *X509_get1_ocsp(X509 *x);
/* Flags for X509_check_* functions */

/*
* Always check subject name for host match even if subject alt names present
*/
# define X509_CHECK_FLAG_ALWAYS_CHECK_SUBJECT    0x1
/* Disable wildcard matching for dnsName fields and common name. */
# define X509_CHECK_FLAG_NO_WILDCARDS    0x2
/* Wildcards must not match a partial
 label. */
# define X509_CHECK_FLAG_NO_PARTIAL_WILDCARDS 0x4
/* Allow (non-partial) wildcards to match multiple labels. */
# define X509_CHECK_FLAG_MULTI_LABEL_WILDCARDS 0x8
/* Constraint verifier subdomain patterns to match a single labels. */
# define X509_CHECK_FLAG_SINGLE_LABEL_SUBDOMAINS 0x10
/* Never check the subject CN */
# define X509_CHECK_FLAG_NEVER_CHECK_SUBJECT    0x20
/*
* Match reference identifiers starting with "." to any sub-domain.
```

```
* This is a non-public flag, turned on implicitly when the subject
* reference identity is a DNS name.
*/
# define _X509_CHECK_FLAG_DOT_SUBDOMAINS 0x8000

int X509_check_host(X509 *x, const char *chk, size_t chklen,
                    unsigned int flags, char **peername);
int X509_check_email(X509 *x, const char *chk, size_t chklen,
                     unsigned int flags);
int X509_check_ip(X509 *x, const unsigned char *chk, size_t chklen,
                  unsigned int flags);
int X509_check_ip_asc(X509 *x, const char *ipasc, unsigned
 int flags);

ASN1_OCTET_STRING *a2i_IPADDRESS(const char *ipasc);
ASN1_OCTET_STRING *a2i_IPADDRESS_NC(const char *ipasc);
int X509V3_NAME_from_section(X509_NAME *nm, STACK_OF(CONF_VALUE) *dn_sk,
                             unsigned long chtype);

void X509_POLICY_NODE_print(BIO *out, X509_POLICY_NODE *node, int indent);
SKM_DEFINE_STACK_OF_INTERNAL(X509_POLICY_NODE, X509_POLICY_NODE,
X509_POLICY_NODE)
#define sk_X509_POLICY_NODE_num(sk)
OPENSSL_sk_num(ossl_check_const_X509_POLICY_NODE_sk_type(sk))
#define sk_X509_POLICY_NODE_value(sk, idx) ((X509_POLICY_NODE
*)OPENSSL_sk_value(ossl_check_const_X509_POLICY_NODE_sk_type(sk), (idx)))
#define sk_X509_POLICY_NODE_new(cmp) ((STACK_OF(X509_POLICY_NODE)
*)OPENSSL_sk_new(ossl_check_X509_POLICY_NODE_compfunc_type(cmp)))
#define sk_X509_POLICY_NODE_new_null() ((STACK_OF(X509_POLICY_NODE)
*)OPENSSL_sk_new_null())
#define sk_X509_POLICY_NODE_new_reserve(cmp, n) ((STACK_OF(X509_POLICY_NODE)
*)OPENSSL_sk_new_reserve(ossl_check_X509_POLICY_NODE_compfunc_type(cmp),
 (n)))
#define sk_X509_POLICY_NODE_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_X509_POLICY_NODE_sk_type(sk), (n))
#define sk_X509_POLICY_NODE_free(sk) OPENSSL_sk_free(ossl_check_X509_POLICY_NODE_sk_type(sk))
#define sk_X509_POLICY_NODE_zero(sk) OPENSSL_sk_zero(ossl_check_X509_POLICY_NODE_sk_type(sk))
#define sk_X509_POLICY_NODE_delete(sk, i) ((X509_POLICY_NODE
*)OPENSSL_sk_delete(ossl_check_X509_POLICY_NODE_sk_type(sk), (i)))
#define sk_X509_POLICY_NODE_delete_ptr(sk, ptr) ((X509_POLICY_NODE
*)OPENSSL_sk_delete_ptr(ossl_check_X509_POLICY_NODE_sk_type(sk),
ossl_check_X509_POLICY_NODE_type(ptr)))
#define sk_X509_POLICY_NODE_push(sk, ptr)
OPENSSL_sk_push(ossl_check_X509_POLICY_NODE_sk_type(sk),
ossl_check_X509_POLICY_NODE_type(ptr))
#define sk_X509_POLICY_NODE_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_X509_POLICY_NODE_sk_type(sk),
ossl_check_X509_POLICY_NODE_type(ptr))
```

```
#define sk_X509_POLICY_NODE_pop(sk) ((X509_POLICY_NODE
*)OPENSSL_sk_pop(ossl_check_X509_POLICY_NODE_sk_type(sk)))
#define
 sk_X509_POLICY_NODE_shift(sk) ((X509_POLICY_NODE
*)OPENSSL_sk_shift(ossl_check_X509_POLICY_NODE_sk_type(sk)))
#define sk_X509_POLICY_NODE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_X509_POLICY_NODE_sk_type(sk),ossl_check_X509_POLICY_NODE_free
func_type(freefunc))
#define sk_X509_POLICY_NODE_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_X509_POLICY_NODE_sk_type(sk),
ossl_check_X509_POLICY_NODE_type(ptr), (idx))
#define sk_X509_POLICY_NODE_set(sk, idx, ptr) ((X509_POLICY_NODE
*)OPENSSL_sk_set(ossl_check_X509_POLICY_NODE_sk_type(sk), (idx),
ossl_check_X509_POLICY_NODE_type(ptr)))
#define sk_X509_POLICY_NODE_find(sk, ptr)
OPENSSL_sk_find(ossl_check_X509_POLICY_NODE_sk_type(sk),
ossl_check_X509_POLICY_NODE_type(ptr))
#define sk_X509_POLICY_NODE_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_X509_POLICY_NODE_sk_type(sk),
ossl_check_X509_POLICY_NODE_type(ptr))
#define sk_X509_POLICY_NODE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_X509_POLICY_NODE_sk_type(sk),
 ossl_check_X509_POLICY_NODE_type(ptr), pnum)
#define sk_X509_POLICY_NODE_sort(sk) OPENSSL_sk_sort(ossl_check_X509_POLICY_NODE_sk_type(sk))
#define sk_X509_POLICY_NODE_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_X509_POLICY_NODE_sk_type(sk))
#define sk_X509_POLICY_NODE_dup(sk) ((STACK_OF(X509_POLICY_NODE)
*)OPENSSL_sk_dup(ossl_check_const_X509_POLICY_NODE_sk_type(sk)))
#define sk_X509_POLICY_NODE_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(X509_POLICY_NODE)
*)OPENSSL_sk_deep_copy(ossl_check_const_X509_POLICY_NODE_sk_type(sk),
ossl_check_X509_POLICY_NODE_copyfunc_type(copyfunc),
ossl_check_X509_POLICY_NODE_freefunc_type(freefunc)))
#define sk_X509_POLICY_NODE_set_cmp_func(sk, cmp)
((sk_X509_POLICY_NODE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_X509_POLICY_NODE_sk_type
(sk), ossl_check_X509_POLICY_NODE_compfunc_type(cmp)))



#ifndef OPENSSL_NO_RFC3779
typedef struct ASRange_st {
   ASN1_INTEGER *min, *max;
} ASRange;

# define ASIdOrRange_id          0
# define
 ASIdOrRange_range       1

typedef struct ASIdOrRange_st {
```

```
  int type;
  union {
     ASN1_INTEGER *id;
     ASRange *range;
  } u;
} ASIdOrRange;

SKM_DEFINE_STACK_OF_INTERNAL(ASIdOrRange, ASIdOrRange, ASIdOrRange)
#define sk_ASIdOrRange_num(sk) OPENSSL_sk_num(ossl_check_const_ASIdOrRange_sk_type(sk))
#define sk_ASIdOrRange_value(sk, idx) ((ASIdOrRange
*)OPENSSL_sk_value(ossl_check_const_ASIdOrRange_sk_type(sk), (idx)))
#define sk_ASIdOrRange_new(cmp) ((STACK_OF(ASIdOrRange)
*)OPENSSL_sk_new(ossl_check_ASIdOrRange_compfunc_type(cmp)))
#define sk_ASIdOrRange_new_null() ((STACK_OF(ASIdOrRange) *)OPENSSL_sk_new_null())
#define sk_ASIdOrRange_new_reserve(cmp, n) ((STACK_OF(ASIdOrRange)
*)OPENSSL_sk_new_reserve(ossl_check_ASIdOrRange_compfunc_type(cmp), (n)))
#define sk_ASIdOrRange_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ASIdOrRange_sk_type(sk), (n))
#define sk_ASIdOrRange_free(sk) OPENSSL_sk_free(ossl_check_ASIdOrRange_sk_type(sk))
#define sk_ASIdOrRange_zero(sk) OPENSSL_sk_zero(ossl_check_ASIdOrRange_sk_type(sk))
#define
 sk_ASIdOrRange_delete(sk, i) ((ASIdOrRange *)OPENSSL_sk_delete(ossl_check_ASIdOrRange_sk_type(sk),
(i)))
#define sk_ASIdOrRange_delete_ptr(sk, ptr) ((ASIdOrRange
*)OPENSSL_sk_delete_ptr(ossl_check_ASIdOrRange_sk_type(sk), ossl_check_ASIdOrRange_type(ptr)))
#define sk_ASIdOrRange_push(sk, ptr) OPENSSL_sk_push(ossl_check_ASIdOrRange_sk_type(sk),
ossl_check_ASIdOrRange_type(ptr))
#define sk_ASIdOrRange_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_ASIdOrRange_sk_type(sk),
ossl_check_ASIdOrRange_type(ptr))
#define sk_ASIdOrRange_pop(sk) ((ASIdOrRange *)OPENSSL_sk_pop(ossl_check_ASIdOrRange_sk_type(sk)))
#define sk_ASIdOrRange_shift(sk) ((ASIdOrRange *)OPENSSL_sk_shift(ossl_check_ASIdOrRange_sk_type(sk)))
#define sk_ASIdOrRange_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ASIdOrRange_sk_type(sk),ossl_check_ASIdOrRange_freefunc_type(freefunc)
)
#define sk_ASIdOrRange_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_ASIdOrRange_sk_type(sk),
 ossl_check_ASIdOrRange_type(ptr), (idx))
#define sk_ASIdOrRange_set(sk, idx, ptr) ((ASIdOrRange
*)OPENSSL_sk_set(ossl_check_ASIdOrRange_sk_type(sk), (idx), ossl_check_ASIdOrRange_type(ptr)))
#define sk_ASIdOrRange_find(sk, ptr) OPENSSL_sk_find(ossl_check_ASIdOrRange_sk_type(sk),
ossl_check_ASIdOrRange_type(ptr))
#define sk_ASIdOrRange_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_ASIdOrRange_sk_type(sk),
ossl_check_ASIdOrRange_type(ptr))
#define sk_ASIdOrRange_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_ASIdOrRange_sk_type(sk),
ossl_check_ASIdOrRange_type(ptr), pnum)
#define sk_ASIdOrRange_sort(sk) OPENSSL_sk_sort(ossl_check_ASIdOrRange_sk_type(sk))
#define sk_ASIdOrRange_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_ASIdOrRange_sk_type(sk))
#define sk_ASIdOrRange_dup(sk) ((STACK_OF(ASIdOrRange)
*)OPENSSL_sk_dup(ossl_check_const_ASIdOrRange_sk_type(sk)))
#define sk_ASIdOrRange_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ASIdOrRange)
```

```
*)OPENSSL_sk_deep_copy(ossl_check_const_ASIdOrRange_sk_type(sk),
 ossl_check_ASIdOrRange_copyfunc_type(copyfunc), ossl_check_ASIdOrRange_freefunc_type(freefunc)))
#define sk_ASIdOrRange_set_cmp_func(sk, cmp)
((sk_ASIdOrRange_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASIdOrRange_sk_type(sk),
ossl_check_ASIdOrRange_compfunc_type(cmp)))


typedef STACK_OF(ASIdOrRange) ASIdOrRanges;

# define ASIdentifierChoice_inherit             0
# define ASIdentifierChoice_asIdsOrRanges       1

typedef struct ASIdentifierChoice_st {
   int type;
   union {
       ASN1_NULL *inherit;
       ASIdOrRanges *asIdsOrRanges;
   } u;
} ASIdentifierChoice;

typedef struct ASIdentifiers_st {
   ASIdentifierChoice *asnum, *rdi;
} ASIdentifiers;

DECLARE_ASN1_FUNCTIONS(ASRange)
DECLARE_ASN1_FUNCTIONS(ASIdOrRange)
DECLARE_ASN1_FUNCTIONS(ASIdentifierChoice)
DECLARE_ASN1_FUNCTIONS(ASIdentifiers)

typedef struct IPAddressRange_st {
   ASN1_BIT_STRING *min, *max;
} IPAddressRange;

# define IPAddressOrRange_addressPrefix  0
# define
 IPAddressOrRange_addressRange   1

typedef struct IPAddressOrRange_st {
   int type;
   union {
       ASN1_BIT_STRING *addressPrefix;
       IPAddressRange *addressRange;
   } u;
} IPAddressOrRange;

SKM_DEFINE_STACK_OF_INTERNAL(IPAddressOrRange, IPAddressOrRange, IPAddressOrRange)
#define sk_IPAddressOrRange_num(sk) OPENSSL_sk_num(ossl_check_const_IPAddressOrRange_sk_type(sk))
#define sk_IPAddressOrRange_value(sk, idx) ((IPAddressOrRange
```

```
*)OPENSSL_sk_value(ossl_check_const_IPAddressOrRange_sk_type(sk), (idx)))
#define sk_IPAddressOrRange_new(cmp) ((STACK_OF(IPAddressOrRange)
*)OPENSSL_sk_new(ossl_check_IPAddressOrRange_compfunc_type(cmp)))
#define sk_IPAddressOrRange_new_null() ((STACK_OF(IPAddressOrRange) *)OPENSSL_sk_new_null())
#define sk_IPAddressOrRange_new_reserve(cmp, n) ((STACK_OF(IPAddressOrRange)
*)OPENSSL_sk_new_reserve(ossl_check_IPAddressOrRange_compfunc_type(cmp), (n)))
#define sk_IPAddressOrRange_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_IPAddressOrRange_sk_type(sk),
 (n))
#define sk_IPAddressOrRange_free(sk) OPENSSL_sk_free(ossl_check_IPAddressOrRange_sk_type(sk))
#define sk_IPAddressOrRange_zero(sk) OPENSSL_sk_zero(ossl_check_IPAddressOrRange_sk_type(sk))
#define sk_IPAddressOrRange_delete(sk, i) ((IPAddressOrRange
*)OPENSSL_sk_delete(ossl_check_IPAddressOrRange_sk_type(sk), (i)))
#define sk_IPAddressOrRange_delete_ptr(sk, ptr) ((IPAddressOrRange
*)OPENSSL_sk_delete_ptr(ossl_check_IPAddressOrRange_sk_type(sk),
ossl_check_IPAddressOrRange_type(ptr)))
#define sk_IPAddressOrRange_push(sk, ptr) OPENSSL_sk_push(ossl_check_IPAddressOrRange_sk_type(sk),
ossl_check_IPAddressOrRange_type(ptr))
#define sk_IPAddressOrRange_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_IPAddressOrRange_sk_type(sk),
ossl_check_IPAddressOrRange_type(ptr))
#define sk_IPAddressOrRange_pop(sk) ((IPAddressOrRange
*)OPENSSL_sk_pop(ossl_check_IPAddressOrRange_sk_type(sk)))
#define sk_IPAddressOrRange_shift(sk) ((IPAddressOrRange
*)OPENSSL_sk_shift(ossl_check_IPAddressOrRange_sk_type(sk)))
#define
 sk_IPAddressOrRange_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_IPAddressOrRange_sk_type(sk),ossl_check_IPAddressOrRange_freefunc_typ
e(freefunc))
#define sk_IPAddressOrRange_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_IPAddressOrRange_sk_type(sk), ossl_check_IPAddressOrRange_type(ptr), (idx))
#define sk_IPAddressOrRange_set(sk, idx, ptr) ((IPAddressOrRange
*)OPENSSL_sk_set(ossl_check_IPAddressOrRange_sk_type(sk), (idx), ossl_check_IPAddressOrRange_type(ptr)))
#define sk_IPAddressOrRange_find(sk, ptr) OPENSSL_sk_find(ossl_check_IPAddressOrRange_sk_type(sk),
ossl_check_IPAddressOrRange_type(ptr))
#define sk_IPAddressOrRange_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_IPAddressOrRange_sk_type(sk), ossl_check_IPAddressOrRange_type(ptr))
#define sk_IPAddressOrRange_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_IPAddressOrRange_sk_type(sk), ossl_check_IPAddressOrRange_type(ptr),
pnum)
#define sk_IPAddressOrRange_sort(sk) OPENSSL_sk_sort(ossl_check_IPAddressOrRange_sk_type(sk))
#define
 sk_IPAddressOrRange_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_IPAddressOrRange_sk_type(sk))
#define sk_IPAddressOrRange_dup(sk) ((STACK_OF(IPAddressOrRange)
*)OPENSSL_sk_dup(ossl_check_const_IPAddressOrRange_sk_type(sk)))
#define sk_IPAddressOrRange_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(IPAddressOrRange)
*)OPENSSL_sk_deep_copy(ossl_check_const_IPAddressOrRange_sk_type(sk),
ossl_check_IPAddressOrRange_copyfunc_type(copyfunc),
ossl_check_IPAddressOrRange_freefunc_type(freefunc)))
#define sk_IPAddressOrRange_set_cmp_func(sk, cmp)
```

```
((sk_IPAddressOrRange_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_IPAddressOrRange_sk_type(sk),
ossl_check_IPAddressOrRange_compfunc_type(cmp)))


typedef STACK_OF(IPAddressOrRange) IPAddressOrRanges;

# define IPAddressChoice_inherit                0
# define IPAddressChoice_addressesOrRanges       1

typedef struct IPAddressChoice_st {
  int type;
  union {
     ASN1_NULL *inherit;

   IPAddressOrRanges *addressesOrRanges;
  } u;
} IPAddressChoice;

typedef struct IPAddressFamily_st {
  ASN1_OCTET_STRING *addressFamily;
  IPAddressChoice *ipAddressChoice;
} IPAddressFamily;

SKM_DEFINE_STACK_OF_INTERNAL(IPAddressFamily, IPAddressFamily, IPAddressFamily)
#define sk_IPAddressFamily_num(sk) OPENSSL_sk_num(ossl_check_const_IPAddressFamily_sk_type(sk))
#define sk_IPAddressFamily_value(sk, idx) ((IPAddressFamily
*)OPENSSL_sk_value(ossl_check_const_IPAddressFamily_sk_type(sk), (idx)))
#define sk_IPAddressFamily_new(cmp) ((STACK_OF(IPAddressFamily)
*)OPENSSL_sk_new(ossl_check_IPAddressFamily_compfunc_type(cmp)))
#define sk_IPAddressFamily_new_null() ((STACK_OF(IPAddressFamily) *)OPENSSL_sk_new_null())
#define sk_IPAddressFamily_new_reserve(cmp, n) ((STACK_OF(IPAddressFamily)
*)OPENSSL_sk_new_reserve(ossl_check_IPAddressFamily_compfunc_type(cmp), (n)))
#define sk_IPAddressFamily_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_IPAddressFamily_sk_type(sk), (n))
#define sk_IPAddressFamily_free(sk)
 OPENSSL_sk_free(ossl_check_IPAddressFamily_sk_type(sk))
#define sk_IPAddressFamily_zero(sk) OPENSSL_sk_zero(ossl_check_IPAddressFamily_sk_type(sk))
#define sk_IPAddressFamily_delete(sk, i) ((IPAddressFamily
*)OPENSSL_sk_delete(ossl_check_IPAddressFamily_sk_type(sk), (i)))
#define sk_IPAddressFamily_delete_ptr(sk, ptr) ((IPAddressFamily
*)OPENSSL_sk_delete_ptr(ossl_check_IPAddressFamily_sk_type(sk), ossl_check_IPAddressFamily_type(ptr)))
#define sk_IPAddressFamily_push(sk, ptr) OPENSSL_sk_push(ossl_check_IPAddressFamily_sk_type(sk),
ossl_check_IPAddressFamily_type(ptr))
#define sk_IPAddressFamily_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_IPAddressFamily_sk_type(sk),
ossl_check_IPAddressFamily_type(ptr))
#define sk_IPAddressFamily_pop(sk) ((IPAddressFamily
*)OPENSSL_sk_pop(ossl_check_IPAddressFamily_sk_type(sk)))
#define sk_IPAddressFamily_shift(sk) ((IPAddressFamily
*)OPENSSL_sk_shift(ossl_check_IPAddressFamily_sk_type(sk)))
```

```
#define sk_IPAddressFamily_pop_free(sk,
 freefunc)
OPENSSL_sk_pop_free(ossl_check_IPAddressFamily_sk_type(sk),ossl_check_IPAddressFamily_freefunc_type(fre
efunc))
#define sk_IPAddressFamily_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_IPAddressFamily_sk_type(sk),
ossl_check_IPAddressFamily_type(ptr), (idx))
#define sk_IPAddressFamily_set(sk, idx, ptr) ((IPAddressFamily
*)OPENSSL_sk_set(ossl_check_IPAddressFamily_sk_type(sk), (idx), ossl_check_IPAddressFamily_type(ptr)))
#define sk_IPAddressFamily_find(sk, ptr) OPENSSL_sk_find(ossl_check_IPAddressFamily_sk_type(sk),
ossl_check_IPAddressFamily_type(ptr))
#define sk_IPAddressFamily_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_IPAddressFamily_sk_type(sk),
ossl_check_IPAddressFamily_type(ptr))
#define sk_IPAddressFamily_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_IPAddressFamily_sk_type(sk), ossl_check_IPAddressFamily_type(ptr), pnum)
#define sk_IPAddressFamily_sort(sk) OPENSSL_sk_sort(ossl_check_IPAddressFamily_sk_type(sk))
#define sk_IPAddressFamily_is_sorted(sk)
 OPENSSL_sk_is_sorted(ossl_check_const_IPAddressFamily_sk_type(sk))
#define sk_IPAddressFamily_dup(sk) ((STACK_OF(IPAddressFamily)
*)OPENSSL_sk_dup(ossl_check_const_IPAddressFamily_sk_type(sk)))
#define sk_IPAddressFamily_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(IPAddressFamily)
*)OPENSSL_sk_deep_copy(ossl_check_const_IPAddressFamily_sk_type(sk),
ossl_check_IPAddressFamily_copyfunc_type(copyfunc), ossl_check_IPAddressFamily_freefunc_type(freefunc)))
#define sk_IPAddressFamily_set_cmp_func(sk, cmp)
((sk_IPAddressFamily_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_IPAddressFamily_sk_type(sk),
ossl_check_IPAddressFamily_compfunc_type(cmp)))



typedef STACK_OF(IPAddressFamily) IPAddrBlocks;

DECLARE_ASN1_FUNCTIONS(IPAddressRange)
DECLARE_ASN1_FUNCTIONS(IPAddressOrRange)
DECLARE_ASN1_FUNCTIONS(IPAddressChoice)
DECLARE_ASN1_FUNCTIONS(IPAddressFamily)

/*
* API tag for elements of the ASIdentifer SEQUENCE.
*/
# define V3_ASID_ASNUM   0
# define V3_ASID_RDI     1

/*
* AFI values,
 assigned by IANA.  It'd be nice to make the AFI
* handling code totally generic, but there are too many little things
* that would need to be defined for other address families for it to
* be worth the trouble.
*/
```

```
# define IANA_AFI_IPV4   1
# define IANA_AFI_IPV6   2

/*
* Utilities to construct and extract values from RFC3779 extensions,
* since some of the encodings (particularly for IP address prefixes
* and ranges) are a bit tedious to work with directly.
*/
int X509v3_asid_add_inherit(ASIdentifiers *asid, int which);
int X509v3_asid_add_id_or_range(ASIdentifiers *asid, int which,
                        ASN1_INTEGER *min, ASN1_INTEGER *max);
int X509v3_addr_add_inherit(IPAddrBlocks *addr,
                      const unsigned afi, const unsigned *safi);
int X509v3_addr_add_prefix(IPAddrBlocks *addr,
                     const unsigned afi, const unsigned *safi,
                     unsigned char *a, const int prefixlen);
int X509v3_addr_add_range(IPAddrBlocks
 *addr,
                    const unsigned afi, const unsigned *safi,
                    unsigned char *min, unsigned char *max);
unsigned X509v3_addr_get_afi(const IPAddressFamily *f);
int X509v3_addr_get_range(IPAddressOrRange *aor, const unsigned afi,
                    unsigned char *min, unsigned char *max,
                    const int length);

/*
* Canonical forms.
*/
int X509v3_asid_is_canonical(ASIdentifiers *asid);
int X509v3_addr_is_canonical(IPAddrBlocks *addr);
int X509v3_asid_canonize(ASIdentifiers *asid);
int X509v3_addr_canonize(IPAddrBlocks *addr);

/*
* Tests for inheritance and containment.
*/
int X509v3_asid_inherits(ASIdentifiers *asid);
int X509v3_addr_inherits(IPAddrBlocks *addr);
int X509v3_asid_subset(ASIdentifiers *a, ASIdentifiers *b);
int X509v3_addr_subset(IPAddrBlocks *a, IPAddrBlocks *b);

/*
* Check whether RFC 3779 extensions nest properly in chains.
*/
int X509v3_asid_validate_path(X509_STORE_CTX *);
int
 X509v3_addr_validate_path(X509_STORE_CTX *);
int X509v3_asid_validate_resource_set(STACK_OF(X509) *chain,
```

```
                                ASIdentifiers *ext,
                                int allow_inheritance);
int X509v3_addr_validate_resource_set(STACK_OF(X509) *chain,
                                IPAddrBlocks *ext, int allow_inheritance);

#endif                          /* OPENSSL_NO_RFC3779 */

SKM_DEFINE_STACK_OF_INTERNAL(ASN1_STRING, ASN1_STRING, ASN1_STRING)
#define sk_ASN1_STRING_num(sk) OPENSSL_sk_num(ossl_check_const_ASN1_STRING_sk_type(sk))
#define sk_ASN1_STRING_value(sk, idx) ((ASN1_STRING
*)OPENSSL_sk_value(ossl_check_const_ASN1_STRING_sk_type(sk), (idx)))
#define sk_ASN1_STRING_new(cmp) ((STACK_OF(ASN1_STRING)
*)OPENSSL_sk_new(ossl_check_ASN1_STRING_compfunc_type(cmp)))
#define sk_ASN1_STRING_new_null() ((STACK_OF(ASN1_STRING) *)OPENSSL_sk_new_null())
#define sk_ASN1_STRING_new_reserve(cmp, n) ((STACK_OF(ASN1_STRING)
*)OPENSSL_sk_new_reserve(ossl_check_ASN1_STRING_compfunc_type(cmp),
 (n)))
#define sk_ASN1_STRING_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ASN1_STRING_sk_type(sk), (n))
#define sk_ASN1_STRING_free(sk) OPENSSL_sk_free(ossl_check_ASN1_STRING_sk_type(sk))
#define sk_ASN1_STRING_zero(sk) OPENSSL_sk_zero(ossl_check_ASN1_STRING_sk_type(sk))
#define sk_ASN1_STRING_delete(sk, i) ((ASN1_STRING
*)OPENSSL_sk_delete(ossl_check_ASN1_STRING_sk_type(sk), (i)))
#define sk_ASN1_STRING_delete_ptr(sk, ptr) ((ASN1_STRING
*)OPENSSL_sk_delete_ptr(ossl_check_ASN1_STRING_sk_type(sk), ossl_check_ASN1_STRING_type(ptr)))
#define sk_ASN1_STRING_push(sk, ptr) OPENSSL_sk_push(ossl_check_ASN1_STRING_sk_type(sk),
ossl_check_ASN1_STRING_type(ptr))
#define sk_ASN1_STRING_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_ASN1_STRING_sk_type(sk),
ossl_check_ASN1_STRING_type(ptr))
#define sk_ASN1_STRING_pop(sk) ((ASN1_STRING
*)OPENSSL_sk_pop(ossl_check_ASN1_STRING_sk_type(sk)))
#define sk_ASN1_STRING_shift(sk) ((ASN1_STRING
*)OPENSSL_sk_shift(ossl_check_ASN1_STRING_sk_type(sk)))
#define
 sk_ASN1_STRING_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ASN1_STRING_sk_type(sk),ossl_check_ASN1_STRING_freefunc_type(freef
unc))
#define sk_ASN1_STRING_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_ASN1_STRING_sk_type(sk),
ossl_check_ASN1_STRING_type(ptr), (idx))
#define sk_ASN1_STRING_set(sk, idx, ptr) ((ASN1_STRING
*)OPENSSL_sk_set(ossl_check_ASN1_STRING_sk_type(sk), (idx), ossl_check_ASN1_STRING_type(ptr)))
#define sk_ASN1_STRING_find(sk, ptr) OPENSSL_sk_find(ossl_check_ASN1_STRING_sk_type(sk),
ossl_check_ASN1_STRING_type(ptr))
#define sk_ASN1_STRING_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_ASN1_STRING_sk_type(sk),
ossl_check_ASN1_STRING_type(ptr))
#define sk_ASN1_STRING_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ASN1_STRING_sk_type(sk), ossl_check_ASN1_STRING_type(ptr), pnum)
#define sk_ASN1_STRING_sort(sk) OPENSSL_sk_sort(ossl_check_ASN1_STRING_sk_type(sk))
#define sk_ASN1_STRING_is_sorted(sk)
```

```
OPENSSL_sk_is_sorted(ossl_check_const_ASN1_STRING_sk_type(sk))
#define
 sk_ASN1_STRING_dup(sk) ((STACK_OF(ASN1_STRING)
*)OPENSSL_sk_dup(ossl_check_const_ASN1_STRING_sk_type(sk)))
#define sk_ASN1_STRING_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ASN1_STRING)
*)OPENSSL_sk_deep_copy(ossl_check_const_ASN1_STRING_sk_type(sk),
ossl_check_ASN1_STRING_copyfunc_type(copyfunc), ossl_check_ASN1_STRING_freefunc_type(freefunc)))
#define sk_ASN1_STRING_set_cmp_func(sk, cmp)
((sk_ASN1_STRING_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASN1_STRING_sk_type(sk),
ossl_check_ASN1_STRING_compfunc_type(cmp)))


/*
* Admission Syntax
*/
typedef struct NamingAuthority_st NAMING_AUTHORITY;
typedef struct ProfessionInfo_st PROFESSION_INFO;
typedef struct Admissions_st ADMISSIONS;
typedef struct AdmissionSyntax_st ADMISSION_SYNTAX;
DECLARE_ASN1_FUNCTIONS(NAMING_AUTHORITY)
DECLARE_ASN1_FUNCTIONS(PROFESSION_INFO)
DECLARE_ASN1_FUNCTIONS(ADMISSIONS)
DECLARE_ASN1_FUNCTIONS(ADMISSION_SYNTAX)
SKM_DEFINE_STACK_OF_INTERNAL(PROFESSION_INFO,
 PROFESSION_INFO, PROFESSION_INFO)
#define sk_PROFESSION_INFO_num(sk)
OPENSSL_sk_num(ossl_check_const_PROFESSION_INFO_sk_type(sk))
#define sk_PROFESSION_INFO_value(sk, idx) ((PROFESSION_INFO
*)OPENSSL_sk_value(ossl_check_const_PROFESSION_INFO_sk_type(sk), (idx)))
#define sk_PROFESSION_INFO_new(cmp) ((STACK_OF(PROFESSION_INFO)
*)OPENSSL_sk_new(ossl_check_PROFESSION_INFO_compfunc_type(cmp)))
#define sk_PROFESSION_INFO_new_null() ((STACK_OF(PROFESSION_INFO) *)OPENSSL_sk_new_null())
#define sk_PROFESSION_INFO_new_reserve(cmp, n) ((STACK_OF(PROFESSION_INFO)
*)OPENSSL_sk_new_reserve(ossl_check_PROFESSION_INFO_compfunc_type(cmp), (n)))
#define sk_PROFESSION_INFO_reserve(sk, n)
OPENSSL_sk_reserve(ossl_check_PROFESSION_INFO_sk_type(sk), (n))
#define sk_PROFESSION_INFO_free(sk) OPENSSL_sk_free(ossl_check_PROFESSION_INFO_sk_type(sk))
#define sk_PROFESSION_INFO_zero(sk) OPENSSL_sk_zero(ossl_check_PROFESSION_INFO_sk_type(sk))
#define sk_PROFESSION_INFO_delete(sk, i) ((PROFESSION_INFO
*)OPENSSL_sk_delete(ossl_check_PROFESSION_INFO_sk_type(sk),
 (i)))
#define sk_PROFESSION_INFO_delete_ptr(sk, ptr) ((PROFESSION_INFO
*)OPENSSL_sk_delete_ptr(ossl_check_PROFESSION_INFO_sk_type(sk),
ossl_check_PROFESSION_INFO_type(ptr)))
#define sk_PROFESSION_INFO_push(sk, ptr)
OPENSSL_sk_push(ossl_check_PROFESSION_INFO_sk_type(sk), ossl_check_PROFESSION_INFO_type(ptr))
#define sk_PROFESSION_INFO_unshift(sk, ptr)
OPENSSL_sk_unshift(ossl_check_PROFESSION_INFO_sk_type(sk), ossl_check_PROFESSION_INFO_type(ptr))
```

```
#define sk_PROFESSION_INFO_pop(sk) ((PROFESSION_INFO
*)OPENSSL_sk_pop(ossl_check_PROFESSION_INFO_sk_type(sk)))
#define sk_PROFESSION_INFO_shift(sk) ((PROFESSION_INFO
*)OPENSSL_sk_shift(ossl_check_PROFESSION_INFO_sk_type(sk)))
#define sk_PROFESSION_INFO_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_PROFESSION_INFO_sk_type(sk),ossl_check_PROFESSION_INFO_freefun
c_type(freefunc))
#define sk_PROFESSION_INFO_insert(sk, ptr, idx)
OPENSSL_sk_insert(ossl_check_PROFESSION_INFO_sk_type(sk), ossl_check_PROFESSION_INFO_type(ptr),
 (idx))
#define sk_PROFESSION_INFO_set(sk, idx, ptr) ((PROFESSION_INFO
*)OPENSSL_sk_set(ossl_check_PROFESSION_INFO_sk_type(sk), (idx),
ossl_check_PROFESSION_INFO_type(ptr)))
#define sk_PROFESSION_INFO_find(sk, ptr) OPENSSL_sk_find(ossl_check_PROFESSION_INFO_sk_type(sk),
ossl_check_PROFESSION_INFO_type(ptr))
#define sk_PROFESSION_INFO_find_ex(sk, ptr)
OPENSSL_sk_find_ex(ossl_check_PROFESSION_INFO_sk_type(sk),
ossl_check_PROFESSION_INFO_type(ptr))
#define sk_PROFESSION_INFO_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_PROFESSION_INFO_sk_type(sk),
ossl_check_PROFESSION_INFO_type(ptr), pnum)
#define sk_PROFESSION_INFO_sort(sk) OPENSSL_sk_sort(ossl_check_PROFESSION_INFO_sk_type(sk))
#define sk_PROFESSION_INFO_is_sorted(sk)
OPENSSL_sk_is_sorted(ossl_check_const_PROFESSION_INFO_sk_type(sk))
#define sk_PROFESSION_INFO_dup(sk) ((STACK_OF(PROFESSION_INFO)
*)OPENSSL_sk_dup(ossl_check_const_PROFESSION_INFO_sk_type(sk)))
#define sk_PROFESSION_INFO_deep_copy(sk,
 copyfunc, freefunc) ((STACK_OF(PROFESSION_INFO)
*)OPENSSL_sk_deep_copy(ossl_check_const_PROFESSION_INFO_sk_type(sk),
ossl_check_PROFESSION_INFO_copyfunc_type(copyfunc),
ossl_check_PROFESSION_INFO_freefunc_type(freefunc)))
#define sk_PROFESSION_INFO_set_cmp_func(sk, cmp)
((sk_PROFESSION_INFO_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_PROFESSION_INFO_sk_type(sk)
, ossl_check_PROFESSION_INFO_compfunc_type(cmp)))
SKM_DEFINE_STACK_OF_INTERNAL(ADMISSIONS, ADMISSIONS, ADMISSIONS)
#define sk_ADMISSIONS_num(sk) OPENSSL_sk_num(ossl_check_const_ADMISSIONS_sk_type(sk))
#define sk_ADMISSIONS_value(sk, idx) ((ADMISSIONS
*)OPENSSL_sk_value(ossl_check_const_ADMISSIONS_sk_type(sk), (idx)))
#define sk_ADMISSIONS_new(cmp) ((STACK_OF(ADMISSIONS)
*)OPENSSL_sk_new(ossl_check_ADMISSIONS_compfunc_type(cmp)))
#define sk_ADMISSIONS_new_null() ((STACK_OF(ADMISSIONS) *)OPENSSL_sk_new_null())
#define sk_ADMISSIONS_new_reserve(cmp, n) ((STACK_OF(ADMISSIONS)
*)OPENSSL_sk_new_reserve(ossl_check_ADMISSIONS_compfunc_type(cmp),
 (n)))
#define sk_ADMISSIONS_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ADMISSIONS_sk_type(sk), (n))
#define sk_ADMISSIONS_free(sk) OPENSSL_sk_free(ossl_check_ADMISSIONS_sk_type(sk))
#define sk_ADMISSIONS_zero(sk) OPENSSL_sk_zero(ossl_check_ADMISSIONS_sk_type(sk))
#define sk_ADMISSIONS_delete(sk, i) ((ADMISSIONS
```

```
*)OPENSSL_sk_delete(ossl_check_ADMISSIONS_sk_type(sk), (i)))
#define sk_ADMISSIONS_delete_ptr(sk, ptr) ((ADMISSIONS
*)OPENSSL_sk_delete_ptr(ossl_check_ADMISSIONS_sk_type(sk), ossl_check_ADMISSIONS_type(ptr)))
#define sk_ADMISSIONS_push(sk, ptr) OPENSSL_sk_push(ossl_check_ADMISSIONS_sk_type(sk),
ossl_check_ADMISSIONS_type(ptr))
#define sk_ADMISSIONS_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_ADMISSIONS_sk_type(sk),
ossl_check_ADMISSIONS_type(ptr))
#define sk_ADMISSIONS_pop(sk) ((ADMISSIONS
*)OPENSSL_sk_pop(ossl_check_ADMISSIONS_sk_type(sk)))
#define sk_ADMISSIONS_shift(sk) ((ADMISSIONS
*)OPENSSL_sk_shift(ossl_check_ADMISSIONS_sk_type(sk)))
#define sk_ADMISSIONS_pop_free(sk,
 freefunc)
OPENSSL_sk_pop_free(ossl_check_ADMISSIONS_sk_type(sk),ossl_check_ADMISSIONS_freefunc_type(freefun
c))
#define sk_ADMISSIONS_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_ADMISSIONS_sk_type(sk),
ossl_check_ADMISSIONS_type(ptr), (idx))
#define sk_ADMISSIONS_set(sk, idx, ptr) ((ADMISSIONS
*)OPENSSL_sk_set(ossl_check_ADMISSIONS_sk_type(sk), (idx), ossl_check_ADMISSIONS_type(ptr)))
#define sk_ADMISSIONS_find(sk, ptr) OPENSSL_sk_find(ossl_check_ADMISSIONS_sk_type(sk),
ossl_check_ADMISSIONS_type(ptr))
#define sk_ADMISSIONS_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_ADMISSIONS_sk_type(sk),
ossl_check_ADMISSIONS_type(ptr))
#define sk_ADMISSIONS_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_ADMISSIONS_sk_type(sk),
ossl_check_ADMISSIONS_type(ptr), pnum)
#define sk_ADMISSIONS_sort(sk) OPENSSL_sk_sort(ossl_check_ADMISSIONS_sk_type(sk))
#define sk_ADMISSIONS_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_ADMISSIONS_sk_type(sk))
#define sk_ADMISSIONS_dup(sk)
 ((STACK_OF(ADMISSIONS) *)OPENSSL_sk_dup(ossl_check_const_ADMISSIONS_sk_type(sk)))
#define sk_ADMISSIONS_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ADMISSIONS)
*)OPENSSL_sk_deep_copy(ossl_check_const_ADMISSIONS_sk_type(sk),
ossl_check_ADMISSIONS_copyfunc_type(copyfunc), ossl_check_ADMISSIONS_freefunc_type(freefunc)))
#define sk_ADMISSIONS_set_cmp_func(sk, cmp)
((sk_ADMISSIONS_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ADMISSIONS_sk_type(sk),
ossl_check_ADMISSIONS_compfunc_type(cmp)))

typedef STACK_OF(PROFESSION_INFO) PROFESSION_INFOS;

const ASN1_OBJECT *NAMING_AUTHORITY_get0_authorityId(
  const NAMING_AUTHORITY *n);
const ASN1_IA5STRING *NAMING_AUTHORITY_get0_authorityURL(
  const NAMING_AUTHORITY *n);
const ASN1_STRING *NAMING_AUTHORITY_get0_authorityText(
  const NAMING_AUTHORITY *n);
void NAMING_AUTHORITY_set0_authorityId(NAMING_AUTHORITY *n,
  ASN1_OBJECT* namingAuthorityId);
void NAMING_AUTHORITY_set0_authorityURL(NAMING_AUTHORITY *n,
  ASN1_IA5STRING* namingAuthorityUrl);
```

```
void
 NAMING_AUTHORITY_set0_authorityText(NAMING_AUTHORITY *n,
   ASN1_STRING* namingAuthorityText);

const GENERAL_NAME *ADMISSION_SYNTAX_get0_admissionAuthority(
   const ADMISSION_SYNTAX *as);
void ADMISSION_SYNTAX_set0_admissionAuthority(
   ADMISSION_SYNTAX *as, GENERAL_NAME *aa);
const STACK_OF(ADMISSIONS) *ADMISSION_SYNTAX_get0_contentsOfAdmissions(
   const ADMISSION_SYNTAX *as);
void ADMISSION_SYNTAX_set0_contentsOfAdmissions(
   ADMISSION_SYNTAX *as, STACK_OF(ADMISSIONS) *a);
const GENERAL_NAME *ADMISSIONS_get0_admissionAuthority(const ADMISSIONS *a);
void ADMISSIONS_set0_admissionAuthority(ADMISSIONS *a, GENERAL_NAME *aa);
const NAMING_AUTHORITY *ADMISSIONS_get0_namingAuthority(const ADMISSIONS *a);
void ADMISSIONS_set0_namingAuthority(ADMISSIONS *a, NAMING_AUTHORITY *na);
const PROFESSION_INFOS *ADMISSIONS_get0_professionInfos(const ADMISSIONS *a);
void ADMISSIONS_set0_professionInfos(ADMISSIONS *a, PROFESSION_INFOS *pi);
const ASN1_OCTET_STRING *PROFESSION_INFO_get0_addProfessionInfo(
    const PROFESSION_INFO *pi);
void PROFESSION_INFO_set0_addProfessionInfo(
   PROFESSION_INFO *pi, ASN1_OCTET_STRING *aos);
const NAMING_AUTHORITY *PROFESSION_INFO_get0_namingAuthority(
   const PROFESSION_INFO *pi);
void PROFESSION_INFO_set0_namingAuthority(
   PROFESSION_INFO *pi, NAMING_AUTHORITY *na);
const STACK_OF(ASN1_STRING) *PROFESSION_INFO_get0_professionItems(
   const PROFESSION_INFO *pi);
void PROFESSION_INFO_set0_professionItems(
   PROFESSION_INFO *pi, STACK_OF(ASN1_STRING) *as);
const STACK_OF(ASN1_OBJECT) *PROFESSION_INFO_get0_professionOIDs(
   const PROFESSION_INFO *pi);
void PROFESSION_INFO_set0_professionOIDs(
   PROFESSION_INFO *pi, STACK_OF(ASN1_OBJECT) *po);
const ASN1_PRINTABLESTRING *PROFESSION_INFO_get0_registrationNumber(
   const PROFESSION_INFO *pi);
void PROFESSION_INFO_set0_registrationNumber(
   PROFESSION_INFO *pi, ASN1_PRINTABLESTRING *rn);

# ifdef  __cplusplus
}
# endif
#endif
```

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```
/*
* WARNING: do not edit!
* Generated by Makefile from providers/common/include/prov/der_ec.h.in
*
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* https://www.openssl.org/source/license.html
*/

#include "crypto/ec.h"
#include "internal/der.h"

/* Well known OIDs precompiled */

/*
* ecdsa-with-SHA1 OBJECT IDENTIFIER ::= { id-ecSigType 1 }
*/
#define DER_OID_V_ecdsa_with_SHA1 DER_P_OBJECT, 7, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x04, 0x01
#define DER_OID_SZ_ecdsa_with_SHA1 9
extern const unsigned char ossl_der_oid_ecdsa_with_SHA1[DER_OID_SZ_ecdsa_with_SHA1];

/*
* id-ecPublicKey OBJECT IDENTIFIER ::= { id-publicKeyType 1 }
*/
#define DER_OID_V_id_ecPublicKey DER_P_OBJECT, 7, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x02, 0x01
#define DER_OID_SZ_id_ecPublicKey 9
extern
 const unsigned char ossl_der_oid_id_ecPublicKey[DER_OID_SZ_id_ecPublicKey];

/*
* c2pnb163v1  OBJECT IDENTIFIER  ::=  { c-TwoCurve  1 }
*/
#define DER_OID_V_c2pnb163v1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x01
#define DER_OID_SZ_c2pnb163v1 10
extern const unsigned char ossl_der_oid_c2pnb163v1[DER_OID_SZ_c2pnb163v1];

/*
* c2pnb163v2  OBJECT IDENTIFIER  ::=  { c-TwoCurve  2 }
*/
#define DER_OID_V_c2pnb163v2 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x02
```

```
#define DER_OID_SZ_c2pnb163v2 10
extern const unsigned char ossl_der_oid_c2pnb163v2[DER_OID_SZ_c2pnb163v2];

/*
* c2pnb163v3  OBJECT IDENTIFIER  ::=  { c-TwoCurve  3 }
*/
#define DER_OID_V_c2pnb163v3 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x03
#define DER_OID_SZ_c2pnb163v3 10
extern const unsigned char ossl_der_oid_c2pnb163v3[DER_OID_SZ_c2pnb163v3];

/*
* c2pnb176w1  OBJECT IDENTIFIER  ::=  { c-TwoCurve  4 }
*/
#define DER_OID_V_c2pnb176w1 DER_P_OBJECT, 8, 0x2A, 0x86,
 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x04
#define DER_OID_SZ_c2pnb176w1 10
extern const unsigned char ossl_der_oid_c2pnb176w1[DER_OID_SZ_c2pnb176w1];

/*
* c2tnb191v1  OBJECT IDENTIFIER  ::=  { c-TwoCurve  5 }
*/
#define DER_OID_V_c2tnb191v1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x05
#define DER_OID_SZ_c2tnb191v1 10
extern const unsigned char ossl_der_oid_c2tnb191v1[DER_OID_SZ_c2tnb191v1];

/*
* c2tnb191v2  OBJECT IDENTIFIER  ::=  { c-TwoCurve  6 }
*/
#define DER_OID_V_c2tnb191v2 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x06
#define DER_OID_SZ_c2tnb191v2 10
extern const unsigned char ossl_der_oid_c2tnb191v2[DER_OID_SZ_c2tnb191v2];

/*
* c2tnb191v3  OBJECT IDENTIFIER  ::=  { c-TwoCurve  7 }
*/
#define DER_OID_V_c2tnb191v3 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x07
#define DER_OID_SZ_c2tnb191v3 10
extern const unsigned char ossl_der_oid_c2tnb191v3[DER_OID_SZ_c2tnb191v3];

/*
* c2onb191v4  OBJECT IDENTIFIER  ::=  { c-TwoCurve
  8 }
*/
#define DER_OID_V_c2onb191v4 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x08
#define DER_OID_SZ_c2onb191v4 10
extern const unsigned char ossl_der_oid_c2onb191v4[DER_OID_SZ_c2onb191v4];

/*
```

```
* c2onb191v5  OBJECT IDENTIFIER  ::=  { c-TwoCurve  9 }
*/
#define DER_OID_V_c2onb191v5 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x09
#define DER_OID_SZ_c2onb191v5 10
extern const unsigned char ossl_der_oid_c2onb191v5[DER_OID_SZ_c2onb191v5];

/*
* c2pnb208w1  OBJECT IDENTIFIER  ::=  { c-TwoCurve 10 }
*/
#define DER_OID_V_c2pnb208w1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x0A
#define DER_OID_SZ_c2pnb208w1 10
extern const unsigned char ossl_der_oid_c2pnb208w1[DER_OID_SZ_c2pnb208w1];

/*
* c2tnb239v1  OBJECT IDENTIFIER  ::=  { c-TwoCurve 11 }
*/
#define DER_OID_V_c2tnb239v1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x0B
#define DER_OID_SZ_c2tnb239v1 10
extern const unsigned char ossl_der_oid_c2tnb239v1[DER_OID_SZ_c2tnb239v1];

/*
 * c2tnb239v2  OBJECT IDENTIFIER  ::=  { c-TwoCurve 12 }
*/
#define DER_OID_V_c2tnb239v2 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x0C
#define DER_OID_SZ_c2tnb239v2 10
extern const unsigned char ossl_der_oid_c2tnb239v2[DER_OID_SZ_c2tnb239v2];

/*
* c2tnb239v3  OBJECT IDENTIFIER  ::=  { c-TwoCurve 13 }
*/
#define DER_OID_V_c2tnb239v3 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x0D
#define DER_OID_SZ_c2tnb239v3 10
extern const unsigned char ossl_der_oid_c2tnb239v3[DER_OID_SZ_c2tnb239v3];

/*
* c2onb239v4  OBJECT IDENTIFIER  ::=  { c-TwoCurve 14 }
*/
#define DER_OID_V_c2onb239v4 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x0E
#define DER_OID_SZ_c2onb239v4 10
extern const unsigned char ossl_der_oid_c2onb239v4[DER_OID_SZ_c2onb239v4];

/*
* c2onb239v5  OBJECT IDENTIFIER  ::=  { c-TwoCurve 15 }
*/
#define DER_OID_V_c2onb239v5 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x0F
#define DER_OID_SZ_c2onb239v5 10
extern
```

```
 const unsigned char ossl_der_oid_c2onb239v5[DER_OID_SZ_c2onb239v5];

/*
* c2pnb272w1  OBJECT IDENTIFIER  ::=  { c-TwoCurve 16 }
*/
#define DER_OID_V_c2pnb272w1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x10
#define DER_OID_SZ_c2pnb272w1 10
extern const unsigned char ossl_der_oid_c2pnb272w1[DER_OID_SZ_c2pnb272w1];

/*
* c2pnb304w1  OBJECT IDENTIFIER  ::=  { c-TwoCurve 17 }
*/
#define DER_OID_V_c2pnb304w1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x11
#define DER_OID_SZ_c2pnb304w1 10
extern const unsigned char ossl_der_oid_c2pnb304w1[DER_OID_SZ_c2pnb304w1];

/*
* c2tnb359v1  OBJECT IDENTIFIER  ::=  { c-TwoCurve 18 }
*/
#define DER_OID_V_c2tnb359v1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x12
#define DER_OID_SZ_c2tnb359v1 10
extern const unsigned char ossl_der_oid_c2tnb359v1[DER_OID_SZ_c2tnb359v1];

/*
* c2pnb368w1  OBJECT IDENTIFIER  ::=  { c-TwoCurve 19 }
*/
#define DER_OID_V_c2pnb368w1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48,
 0xCE, 0x3D, 0x03, 0x00, 0x13
#define DER_OID_SZ_c2pnb368w1 10
extern const unsigned char ossl_der_oid_c2pnb368w1[DER_OID_SZ_c2pnb368w1];

/*
* c2tnb431r1  OBJECT IDENTIFIER  ::=  { c-TwoCurve 20 }
*/
#define DER_OID_V_c2tnb431r1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x00, 0x14
#define DER_OID_SZ_c2tnb431r1 10
extern const unsigned char ossl_der_oid_c2tnb431r1[DER_OID_SZ_c2tnb431r1];

/*
* prime192v1  OBJECT IDENTIFIER  ::=  { primeCurve  1 }
*/
#define DER_OID_V_prime192v1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x01, 0x01
#define DER_OID_SZ_prime192v1 10
extern const unsigned char ossl_der_oid_prime192v1[DER_OID_SZ_prime192v1];

/*
* prime192v2  OBJECT IDENTIFIER  ::=  { primeCurve  2 }
*/
```

```
#define DER_OID_V_prime192v2 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x01, 0x02
#define DER_OID_SZ_prime192v2 10
extern const unsigned char ossl_der_oid_prime192v2[DER_OID_SZ_prime192v2];

/*
* prime192v3  OBJECT IDENTIFIER  ::=  { primeCurve  3 }
*/
#define
 DER_OID_V_prime192v3 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x01, 0x03
#define DER_OID_SZ_prime192v3 10
extern const unsigned char ossl_der_oid_prime192v3[DER_OID_SZ_prime192v3];

/*
* prime239v1  OBJECT IDENTIFIER  ::=  { primeCurve  4 }
*/
#define DER_OID_V_prime239v1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x01, 0x04
#define DER_OID_SZ_prime239v1 10
extern const unsigned char ossl_der_oid_prime239v1[DER_OID_SZ_prime239v1];

/*
* prime239v2  OBJECT IDENTIFIER  ::=  { primeCurve  5 }
*/
#define DER_OID_V_prime239v2 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x01, 0x05
#define DER_OID_SZ_prime239v2 10
extern const unsigned char ossl_der_oid_prime239v2[DER_OID_SZ_prime239v2];

/*
* prime239v3  OBJECT IDENTIFIER  ::=  { primeCurve  6 }
*/
#define DER_OID_V_prime239v3 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x01, 0x06
#define DER_OID_SZ_prime239v3 10
extern const unsigned char ossl_der_oid_prime239v3[DER_OID_SZ_prime239v3];

/*
 * prime256v1  OBJECT IDENTIFIER  ::=  { primeCurve  7 }
*/
#define DER_OID_V_prime256v1 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x03, 0x01, 0x07
#define DER_OID_SZ_prime256v1 10
extern const unsigned char ossl_der_oid_prime256v1[DER_OID_SZ_prime256v1];

/*
* ecdsa-with-SHA224 OBJECT IDENTIFIER ::= { iso(1) member-body(2)
*      us(840) ansi-X9-62(10045) signatures(4) ecdsa-with-SHA2(3) 1 }
*/
#define DER_OID_V_ecdsa_with_SHA224 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x04, 0x03,
0x01
#define DER_OID_SZ_ecdsa_with_SHA224 10
extern const unsigned char ossl_der_oid_ecdsa_with_SHA224[DER_OID_SZ_ecdsa_with_SHA224];
```

```
/*
* ecdsa-with-SHA256 OBJECT IDENTIFIER ::= { iso(1) member-body(2)
*      us(840) ansi-X9-62(10045) signatures(4) ecdsa-with-SHA2(3) 2 }
*/
#define DER_OID_V_ecdsa_with_SHA256 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x04, 0x03,
0x02
#define DER_OID_SZ_ecdsa_with_SHA256 10
extern const unsigned char ossl_der_oid_ecdsa_with_SHA256[DER_OID_SZ_ecdsa_with_SHA256];

/*
 * ecdsa-with-SHA384 OBJECT IDENTIFIER ::= { iso(1) member-body(2)
*      us(840) ansi-X9-62(10045) signatures(4) ecdsa-with-SHA2(3) 3 }
*/
#define DER_OID_V_ecdsa_with_SHA384 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x04, 0x03,
0x03
#define DER_OID_SZ_ecdsa_with_SHA384 10
extern const unsigned char ossl_der_oid_ecdsa_with_SHA384[DER_OID_SZ_ecdsa_with_SHA384];

/*
* ecdsa-with-SHA512 OBJECT IDENTIFIER ::= { iso(1) member-body(2)
*      us(840) ansi-X9-62(10045) signatures(4) ecdsa-with-SHA2(3) 4 }
*/
#define DER_OID_V_ecdsa_with_SHA512 DER_P_OBJECT, 8, 0x2A, 0x86, 0x48, 0xCE, 0x3D, 0x04, 0x03,
0x04
#define DER_OID_SZ_ecdsa_with_SHA512 10
extern const unsigned char ossl_der_oid_ecdsa_with_SHA512[DER_OID_SZ_ecdsa_with_SHA512];

/*
* id-ecdsa-with-sha3-224 OBJECT IDENTIFIER ::= { sigAlgs 9 }
*/
#define DER_OID_V_id_ecdsa_with_sha3_224 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x03, 0x09
#define DER_OID_SZ_id_ecdsa_with_sha3_224 11
extern const
 unsigned char ossl_der_oid_id_ecdsa_with_sha3_224[DER_OID_SZ_id_ecdsa_with_sha3_224];

/*
* id-ecdsa-with-sha3-256 OBJECT IDENTIFIER ::= { sigAlgs 10 }
*/
#define DER_OID_V_id_ecdsa_with_sha3_256 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x03, 0x0A
#define DER_OID_SZ_id_ecdsa_with_sha3_256 11
extern const unsigned char ossl_der_oid_id_ecdsa_with_sha3_256[DER_OID_SZ_id_ecdsa_with_sha3_256];

/*
* id-ecdsa-with-sha3-384 OBJECT IDENTIFIER ::= { sigAlgs 11 }
*/
```

```
#define DER_OID_V_id_ecdsa_with_sha3_384 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x03, 0x0B
#define DER_OID_SZ_id_ecdsa_with_sha3_384 11
extern const unsigned char ossl_der_oid_id_ecdsa_with_sha3_384[DER_OID_SZ_id_ecdsa_with_sha3_384];

/*
* id-ecdsa-with-sha3-512 OBJECT IDENTIFIER ::= { sigAlgs 12 }
*/
#define DER_OID_V_id_ecdsa_with_sha3_512 DER_P_OBJECT, 9, 0x60, 0x86, 0x48, 0x01, 0x65, 0x03, 0x04,
0x03, 0x0C
#define DER_OID_SZ_id_ecdsa_with_sha3_512 11
extern const unsigned char ossl_der_oid_id_ecdsa_with_sha3_512[DER_OID_SZ_id_ecdsa_with_sha3_512];


/*
 Subject Public Key Info */
int ossl_DER_w_algorithmIdentifier_EC(WPACKET *pkt, int cont, EC_KEY *ec);
/* Signature */
int ossl_DER_w_algorithmIdentifier_ECDSA_with_MD(WPACKET *pkt, int cont,
                                    EC_KEY *ec, int mdnid);
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```
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/* Generated by Makefile from include/crypto/bn_conf.h.in */
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* https://www.openssl.org/source/license.html
*/

#ifndef OSSL_CRYPTO_BN_CONF_H
# define OSSL_CRYPTO_BN_CONF_H
# pragma once

/*
* The contents of this file are not used in the UEFI build, as
* both 32-bit and 64-bit builds are supported from a single run
* of the Configure script.
*/

/* Should we define BN_DIV2W here? */
```

/* Only one for the following should be defined */
#define SIXTY_FOUR_BIT_LONG
#undef SIXTY_FOUR_BIT
#undef THIRTY_TWO_BIT

#endif
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```
/*
* WARNING: do not edit!
* Generated by configdata.pm from Configurations/common0.tmpl, Configurations/unix-Makefile.tmpl
* via Makefile.in
*
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```

```
* https://www.openssl.org/source/license.html
*/

#ifndef OPENSSL_CONFIGURATION_H
# define OPENSSL_CONFIGURATION_H
# pragma once

# ifdef  __cplusplus
extern "C" {
# endif

# ifdef OPENSSL_ALGORITHM_DEFINES
#  error OPENSSL_ALGORITHM_DEFINES no longer supported
# endif

/*
* OpenSSL was configured with the following options:
*/

# define OPENSSL_CONFIGURED_API 30000
# ifndef OPENSSL_RAND_SEED_OS
#  define OPENSSL_RAND_SEED_OS
# endif
# ifndef OPENSSL_THREADS
#  define OPENSSL_THREADS
# endif
# ifndef OPENSSL_NO_AFALGENG
#  define OPENSSL_NO_AFALGENG
# endif
# ifndef
 OPENSSL_NO_ASAN
#  define OPENSSL_NO_ASAN
# endif
# ifndef OPENSSL_NO_ASM
#  define OPENSSL_NO_ASM
# endif
# ifndef OPENSSL_NO_COMP
#  define OPENSSL_NO_COMP
# endif
# ifndef OPENSSL_NO_CRYPTO_MDEBUG
#  define OPENSSL_NO_CRYPTO_MDEBUG
# endif
# ifndef OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
#  define OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
# endif
# ifndef OPENSSL_NO_EC_NISTP_64_GCC_128
#  define OPENSSL_NO_EC_NISTP_64_GCC_128
# endif
```

```
# ifndef OPENSSL_NO_EGD
#  define OPENSSL_NO_EGD
# endif
# ifndef OPENSSL_NO_EXTERNAL_TESTS
#  define OPENSSL_NO_EXTERNAL_TESTS
# endif
# ifndef OPENSSL_NO_FUZZ_AFL
#  define OPENSSL_NO_FUZZ_AFL
# endif
# ifndef OPENSSL_NO_FUZZ_LIBFUZZER
#  define OPENSSL_NO_FUZZ_LIBFUZZER
# endif
# ifndef OPENSSL_NO_KTLS
#  define OPENSSL_NO_KTLS
# endif
# ifndef OPENSSL_NO_LOADERENG
#  define OPENSSL_NO_LOADERENG
# endif
# ifndef OPENSSL_NO_MD2
#  define OPENSSL_NO_MD2
# endif
# ifndef OPENSSL_NO_MSAN
#  define OPENSSL_NO_MSAN
# endif
# ifndef OPENSSL_NO_RC5
#  define OPENSSL_NO_RC5
#
 endif
# ifndef OPENSSL_NO_SCTP
#  define OPENSSL_NO_SCTP
# endif
# ifndef OPENSSL_NO_SSL3
#  define OPENSSL_NO_SSL3
# endif
# ifndef OPENSSL_NO_SSL3_METHOD
#  define OPENSSL_NO_SSL3_METHOD
# endif
# ifndef OPENSSL_NO_TRACE
#  define OPENSSL_NO_TRACE
# endif
# ifndef OPENSSL_NO_UBSAN
#  define OPENSSL_NO_UBSAN
# endif
# ifndef OPENSSL_NO_UNIT_TEST
#  define OPENSSL_NO_UNIT_TEST
# endif
# ifndef OPENSSL_NO_UPLINK
#  define OPENSSL_NO_UPLINK
```

```
# endif
# ifndef OPENSSL_NO_WEAK_SSL_CIPHERS
#  define OPENSSL_NO_WEAK_SSL_CIPHERS
# endif
# ifndef OPENSSL_NO_DYNAMIC_ENGINE
#  define OPENSSL_NO_DYNAMIC_ENGINE
# endif


/* Generate 80386 code? */
# undef I386_ONLY

/*
* The following are cipher-specific, but are part of the public API.
*/
# if !defined(OPENSSL_SYS_UEFI)
#  undef BN_LLONG
/* Only one for the following should be defined */
#  define SIXTY_FOUR_BIT_LONG
#  undef SIXTY_FOUR_BIT
#  undef THIRTY_TWO_BIT
# endif

# define RC4_INT unsigned int

# ifdef  __cplusplus
}
# endif

#endif
                        /* OPENSSL_CONFIGURATION_H */
/*
* WARNING: do not edit!
* Generated by Makefile from providers/common/include/prov/der_sm2.h.in
*
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*/

#include "crypto/ec.h"
#include "internal/der.h"

/* Well known OIDs precompiled */
```

```
/*
* sm2-with-SM3 OBJECT IDENTIFIER ::= { sm-scheme 501 }
*/
#define DER_OID_V_sm2_with_SM3 DER_P_OBJECT, 8, 0x2A, 0x81, 0x1C, 0xCF, 0x55, 0x01, 0x83, 0x75
#define DER_OID_SZ_sm2_with_SM3 10
extern const unsigned char ossl_der_oid_sm2_with_SM3[DER_OID_SZ_sm2_with_SM3];

/*
* curveSM2 OBJECT IDENTIFIER ::= { sm-scheme 301 }
*/
#define DER_OID_V_curveSM2 DER_P_OBJECT, 8, 0x2A, 0x81, 0x1C, 0xCF, 0x55, 0x01, 0x82, 0x2D
#define DER_OID_SZ_curveSM2 10
extern const unsigned char
 ossl_der_oid_curveSM2[DER_OID_SZ_curveSM2];


/* Subject Public Key Info */
int ossl_DER_w_algorithmIdentifier_SM2(WPACKET *pkt, int cont, EC_KEY *ec);
/* Signature */
int ossl_DER_w_algorithmIdentifier_SM2_with_MD(WPACKET *pkt, int cont,
                                               EC_KEY *ec, int mdnid);
```

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```
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* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#include "function.h"

extern int asn1parse_main(int argc, char *argv[]);
extern int ca_main(int argc, char *argv[]);
extern int ciphers_main(int argc, char *argv[]);
extern int cmp_main(int argc, char *argv[]);
extern int cms_main(int argc, char *argv[]);
extern int crl_main(int argc, char *argv[]);
extern int crl2pkcs7_main(int argc, char *argv[]);
extern int dgst_main(int argc, char *argv[]);
extern int dhparam_main(int argc, char *argv[]);
extern int dsa_main(int argc, char *argv[]);
```

```
extern int dsaparam_main(int argc, char *argv[]);
extern int ec_main(int argc, char *argv[]);
extern int ecparam_main(int
 argc, char *argv[]);
extern int enc_main(int argc, char *argv[]);
extern int engine_main(int argc, char *argv[]);
extern int errstr_main(int argc, char *argv[]);
extern int fipsinstall_main(int argc, char *argv[]);
extern int gendsa_main(int argc, char *argv[]);
extern int genpkey_main(int argc, char *argv[]);
extern int genrsa_main(int argc, char *argv[]);
extern int help_main(int argc, char *argv[]);
extern int info_main(int argc, char *argv[]);
extern int kdf_main(int argc, char *argv[]);
extern int list_main(int argc, char *argv[]);
extern int mac_main(int argc, char *argv[]);
extern int nseq_main(int argc, char *argv[]);
extern int ocsp_main(int argc, char *argv[]);
extern int passwd_main(int argc, char *argv[]);
extern int pkcs12_main(int argc, char *argv[]);
extern int pkcs7_main(int argc, char *argv[]);
extern int pkcs8_main(int argc, char *argv[]);
extern int pkey_main(int argc, char *argv[]);
extern int pkeyparam_main(int argc, char *argv[]);
extern int pkeyutl_main(int
 argc, char *argv[]);
extern int prime_main(int argc, char *argv[]);
extern int rand_main(int argc, char *argv[]);
extern int rehash_main(int argc, char *argv[]);
extern int req_main(int argc, char *argv[]);
extern int rsa_main(int argc, char *argv[]);
extern int rsautl_main(int argc, char *argv[]);
extern int s_client_main(int argc, char *argv[]);
extern int s_server_main(int argc, char *argv[]);
extern int s_time_main(int argc, char *argv[]);
extern int sess_id_main(int argc, char *argv[]);
extern int smime_main(int argc, char *argv[]);
extern int speed_main(int argc, char *argv[]);
extern int spkac_main(int argc, char *argv[]);
extern int srp_main(int argc, char *argv[]);
extern int storeutl_main(int argc, char *argv[]);
extern int ts_main(int argc, char *argv[]);
extern int verify_main(int argc, char *argv[]);
extern int version_main(int argc, char *argv[]);
extern int x509_main(int argc, char *argv[]);

extern const OPTIONS asn1parse_options[];
extern const OPTIONS ca_options[];
```

```
extern
 const OPTIONS ciphers_options[];
extern const OPTIONS cmp_options[];
extern const OPTIONS cms_options[];
extern const OPTIONS crl_options[];
extern const OPTIONS crl2pkcs7_options[];
extern const OPTIONS dgst_options[];
extern const OPTIONS dhparam_options[];
extern const OPTIONS dsa_options[];
extern const OPTIONS dsaparam_options[];
extern const OPTIONS ec_options[];
extern const OPTIONS ecparam_options[];
extern const OPTIONS enc_options[];
extern const OPTIONS engine_options[];
extern const OPTIONS errstr_options[];
extern const OPTIONS fipsinstall_options[];
extern const OPTIONS gendsa_options[];
extern const OPTIONS genpkey_options[];
extern const OPTIONS genrsa_options[];
extern const OPTIONS help_options[];
extern const OPTIONS info_options[];
extern const OPTIONS kdf_options[];
extern const OPTIONS list_options[];
extern const OPTIONS mac_options[];
extern const OPTIONS nseq_options[];
extern const OPTIONS ocsp_options[];
extern const OPTIONS passwd_options[];
extern
 const OPTIONS pkcs12_options[];
extern const OPTIONS pkcs7_options[];
extern const OPTIONS pkcs8_options[];
extern const OPTIONS pkey_options[];
extern const OPTIONS pkeyparam_options[];
extern const OPTIONS pkeyutl_options[];
extern const OPTIONS prime_options[];
extern const OPTIONS rand_options[];
extern const OPTIONS rehash_options[];
extern const OPTIONS req_options[];
extern const OPTIONS rsa_options[];
extern const OPTIONS rsautl_options[];
extern const OPTIONS s_client_options[];
extern const OPTIONS s_server_options[];
extern const OPTIONS s_time_options[];
extern const OPTIONS sess_id_options[];
extern const OPTIONS smime_options[];
extern const OPTIONS speed_options[];
extern const OPTIONS spkac_options[];
extern const OPTIONS srp_options[];
```

```
extern const OPTIONS storeutl_options[];
extern const OPTIONS ts_options[];
extern const OPTIONS verify_options[];
extern const OPTIONS version_options[];
extern const OPTIONS x509_options[];

extern FUNCTION functions[];
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/bio.h.in
*
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*/


#ifndef OPENSSL_BIO_H
# define OPENSSL_BIO_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_BIO_H
# endif

# include <openssl/e_os2.h>

# ifndef OPENSSL_NO_STDIO
#  include <stdio.h>
# endif
# include <stdarg.h>

# include <openssl/crypto.h>
# include <openssl/bioerr.h>
# include <openssl/core.h>

#ifdef  __cplusplus
extern "C" {
#endif

/* There are the classes of BIOs */
# define BIO_TYPE_DESCRIPTOR     0x0100 /* socket, fd, connect or accept */
# define BIO_TYPE_FILTER         0x0200
# define BIO_TYPE_SOURCE_SINK    0x0400
```

```
/*
 These are the 'types' of BIOs */
# define BIO_TYPE_NONE           0
# define BIO_TYPE_MEM            ( 1|BIO_TYPE_SOURCE_SINK)
# define BIO_TYPE_FILE           ( 2|BIO_TYPE_SOURCE_SINK)

# define BIO_TYPE_FD             ( 4|BIO_TYPE_SOURCE_SINK|BIO_TYPE_DESCRIPTOR)
# define BIO_TYPE_SOCKET         ( 5|BIO_TYPE_SOURCE_SINK|BIO_TYPE_DESCRIPTOR)
# define BIO_TYPE_NULL           ( 6|BIO_TYPE_SOURCE_SINK)
# define BIO_TYPE_SSL            ( 7|BIO_TYPE_FILTER)
# define BIO_TYPE_MD             ( 8|BIO_TYPE_FILTER)
# define BIO_TYPE_BUFFER         ( 9|BIO_TYPE_FILTER)
# define BIO_TYPE_CIPHER         (10|BIO_TYPE_FILTER)
# define BIO_TYPE_BASE64         (11|BIO_TYPE_FILTER)
# define BIO_TYPE_CONNECT        (12|BIO_TYPE_SOURCE_SINK|BIO_TYPE_DESCRIPTOR)
# define BIO_TYPE_ACCEPT         (13|BIO_TYPE_SOURCE_SINK|BIO_TYPE_DESCRIPTOR)

# define BIO_TYPE_NBIO_TEST      (16|BIO_TYPE_FILTER)/* server proxy BIO */
# define BIO_TYPE_NULL_FILTER    (17|BIO_TYPE_FILTER)
# define BIO_TYPE_BIO
    (19|BIO_TYPE_SOURCE_SINK)/* half a BIO pair */
# define BIO_TYPE_LINEBUFFER     (20|BIO_TYPE_FILTER)
# define BIO_TYPE_DGRAM          (21|BIO_TYPE_SOURCE_SINK|BIO_TYPE_DESCRIPTOR)
# define BIO_TYPE_ASN1           (22|BIO_TYPE_FILTER)
# define BIO_TYPE_COMP           (23|BIO_TYPE_FILTER)
# ifndef OPENSSL_NO_SCTP
#  define BIO_TYPE_DGRAM_SCTP    (24|BIO_TYPE_SOURCE_SINK|BIO_TYPE_DESCRIPTOR)
# endif
# define BIO_TYPE_CORE_TO_PROV   (25|BIO_TYPE_SOURCE_SINK)

#define BIO_TYPE_START           128

/*
* BIO_FILENAME_READ|BIO_CLOSE to open or close on free.
* BIO_set_fp(in,stdin,BIO_NOCLOSE);
*/
# define BIO_NOCLOSE             0x00
# define BIO_CLOSE               0x01

/*
* These are used in the following macros and are passed to BIO_ctrl()
*/
# define BIO_CTRL_RESET          1/* opt - rewind/zero etc */
# define BIO_CTRL_EOF            2/* opt - are we at the eof */
# define BIO_CTRL_INFO           3/* opt - extra tit-bits */
# define BIO_CTRL_SET            4/* man - set the 'IO'
```

```
 type */
# define BIO_CTRL_GET           5/* man - get the 'IO' type */
# define BIO_CTRL_PUSH          6/* opt - internal, used to signify change */
# define BIO_CTRL_POP           7/* opt - internal, used to signify change */
# define BIO_CTRL_GET_CLOSE      8/* man - set the 'close' on free */
# define BIO_CTRL_SET_CLOSE      9/* man - set the 'close' on free */
# define BIO_CTRL_PENDING        10/* opt - is their more data buffered */
# define BIO_CTRL_FLUSH          11/* opt - 'flush' buffered output */
# define BIO_CTRL_DUP            12/* man - extra stuff for 'duped' BIO */
# define BIO_CTRL_WPENDING       13/* opt - number of bytes still to write */
# define BIO_CTRL_SET_CALLBACK   14/* opt - set callback function */
# define BIO_CTRL_GET_CALLBACK   15/* opt - set callback function */

# define BIO_CTRL_PEEK           29/* BIO_f_buffer special */
# define BIO_CTRL_SET_FILENAME   30/* BIO_s_file special */

/* dgram BIO stuff */
# define BIO_CTRL_DGRAM_CONNECT       31/* BIO
 dgram special */
# define BIO_CTRL_DGRAM_SET_CONNECTED 32/* allow for an externally connected
                                 * socket to be passed in */
# define BIO_CTRL_DGRAM_SET_RECV_TIMEOUT 33/* setsockopt, essentially */
# define BIO_CTRL_DGRAM_GET_RECV_TIMEOUT 34/* getsockopt, essentially */
# define BIO_CTRL_DGRAM_SET_SEND_TIMEOUT 35/* setsockopt, essentially */
# define BIO_CTRL_DGRAM_GET_SEND_TIMEOUT 36/* getsockopt, essentially */

# define BIO_CTRL_DGRAM_GET_RECV_TIMER_EXP 37/* flag whether the last */
# define BIO_CTRL_DGRAM_GET_SEND_TIMER_EXP 38/* I/O operation timed out */

/* #ifdef IP_MTU_DISCOVER */
# define BIO_CTRL_DGRAM_MTU_DISCOVER       39/* set DF bit on egress packets */
/* #endif */

# define BIO_CTRL_DGRAM_QUERY_MTU          40/* as kernel for current MTU */
# define BIO_CTRL_DGRAM_GET_FALLBACK_MTU   47
# define BIO_CTRL_DGRAM_GET_MTU            41/* get cached value for MTU */
# define BIO_CTRL_DGRAM_SET_MTU            42/* set cached value for MTU.
                                  * want to use this if asking
                                  * the kernel fails */

# define BIO_CTRL_DGRAM_MTU_EXCEEDED       43/* check whether the MTU was
                                  * exceed in the previous write
                                  * operation */

# define BIO_CTRL_DGRAM_GET_PEER           46
# define BIO_CTRL_DGRAM_SET_PEER           44/* Destination for the data */

# define BIO_CTRL_DGRAM_SET_NEXT_TIMEOUT   45/* Next DTLS handshake timeout
```

```
                                * to adjust socket timeouts */
# define BIO_CTRL_DGRAM_SET_DONT_FRAG      48

# define BIO_CTRL_DGRAM_GET_MTU_OVERHEAD   49

/* Deliberately outside of OPENSSL_NO_SCTP - used in bss_dgram.c */
#  define BIO_CTRL_DGRAM_SCTP_SET_IN_HANDSHAKE    50
# ifndef OPENSSL_NO_SCTP
/* SCTP stuff */
#  define BIO_CTRL_DGRAM_SCTP_ADD_AUTH_KEY              51
#  define BIO_CTRL_DGRAM_SCTP_NEXT_AUTH_KEY
         52
#  define BIO_CTRL_DGRAM_SCTP_AUTH_CCS_RCVD             53
#  define BIO_CTRL_DGRAM_SCTP_GET_SNDINFO        60
#  define BIO_CTRL_DGRAM_SCTP_SET_SNDINFO        61
#  define BIO_CTRL_DGRAM_SCTP_GET_RCVINFO        62
#  define BIO_CTRL_DGRAM_SCTP_SET_RCVINFO        63
#  define BIO_CTRL_DGRAM_SCTP_GET_PRINFO                 64
#  define BIO_CTRL_DGRAM_SCTP_SET_PRINFO                 65
#  define BIO_CTRL_DGRAM_SCTP_SAVE_SHUTDOWN              70
# endif

# define BIO_CTRL_DGRAM_SET_PEEK_MODE      71

/*
* internal BIO:
* # define BIO_CTRL_SET_KTLS_SEND                72
* # define BIO_CTRL_SET_KTLS_SEND_CTRL_MSG        74
* # define BIO_CTRL_CLEAR_KTLS_CTRL_MSG           75
*/

# define BIO_CTRL_GET_KTLS_SEND                73
# define BIO_CTRL_GET_KTLS_RECV                76

# define BIO_CTRL_DGRAM_SCTP_WAIT_FOR_DRY       77
# define BIO_CTRL_DGRAM_SCTP_MSG_WAITING        78

/* BIO_f_prefix controls */
# define BIO_CTRL_SET_PREFIX                    79
# define
 BIO_CTRL_SET_INDENT                  80
# define BIO_CTRL_GET_INDENT                    81

# ifndef OPENSSL_NO_KTLS
#  define BIO_get_ktls_send(b)        \
   (BIO_ctrl(b, BIO_CTRL_GET_KTLS_SEND, 0, NULL) > 0)
#  define BIO_get_ktls_recv(b)        \
   (BIO_ctrl(b, BIO_CTRL_GET_KTLS_RECV, 0, NULL) > 0)
```

```
# else
#  define BIO_get_ktls_send(b)  (0)
#  define BIO_get_ktls_recv(b)  (0)
# endif

/* modifiers */
# define BIO_FP_READ             0x02
# define BIO_FP_WRITE            0x04
# define BIO_FP_APPEND           0x08
# define BIO_FP_TEXT             0x10

# define BIO_FLAGS_READ          0x01
# define BIO_FLAGS_WRITE         0x02
# define BIO_FLAGS_IO_SPECIAL    0x04
# define BIO_FLAGS_RWS (BIO_FLAGS_READ|BIO_FLAGS_WRITE|BIO_FLAGS_IO_SPECIAL)
# define BIO_FLAGS_SHOULD_RETRY  0x08
# ifndef OPENSSL_NO_DEPRECATED_3_0
/* This #define was replaced by an internal constant and should not be used. */
#  define BIO_FLAGS_UPLINK       0
# endif

# define BIO_FLAGS_BASE64_NO_NL  0x100

/*
 * This is used with memory BIOs:
* BIO_FLAGS_MEM_RDONLY means we shouldn't free up or change the data in any way;
* BIO_FLAGS_NONCLEAR_RST means we shouldn't clear data on reset.
*/
# define BIO_FLAGS_MEM_RDONLY    0x200
# define BIO_FLAGS_NONCLEAR_RST  0x400
# define BIO_FLAGS_IN_EOF        0x800

/* the BIO FLAGS values 0x1000 to 0x4000 are reserved for internal KTLS flags */

typedef union bio_addr_st BIO_ADDR;
typedef struct bio_addrinfo_st BIO_ADDRINFO;

int BIO_get_new_index(void);
void BIO_set_flags(BIO *b, int flags);
int BIO_test_flags(const BIO *b, int flags);
void BIO_clear_flags(BIO *b, int flags);

# define BIO_get_flags(b) BIO_test_flags(b, ~(0x0))
# define BIO_set_retry_special(b) \
            BIO_set_flags(b, (BIO_FLAGS_IO_SPECIAL|BIO_FLAGS_SHOULD_RETRY))
# define BIO_set_retry_read(b) \
            BIO_set_flags(b, (BIO_FLAGS_READ|BIO_FLAGS_SHOULD_RETRY))
# define BIO_set_retry_write(b) \
```

```
            BIO_set_flags(b, (BIO_FLAGS_WRITE|BIO_FLAGS_SHOULD_RETRY))

/*
 These are normally used internally in BIOs */
# define BIO_clear_retry_flags(b) \
            BIO_clear_flags(b, (BIO_FLAGS_RWS|BIO_FLAGS_SHOULD_RETRY))
# define BIO_get_retry_flags(b) \
            BIO_test_flags(b, (BIO_FLAGS_RWS|BIO_FLAGS_SHOULD_RETRY))

/* These should be used by the application to tell why we should retry */
# define BIO_should_read(a)             BIO_test_flags(a, BIO_FLAGS_READ)
# define BIO_should_write(a)            BIO_test_flags(a, BIO_FLAGS_WRITE)
# define BIO_should_io_special(a)       BIO_test_flags(a, BIO_FLAGS_IO_SPECIAL)
# define BIO_retry_type(a)              BIO_test_flags(a, BIO_FLAGS_RWS)
# define BIO_should_retry(a)            BIO_test_flags(a, BIO_FLAGS_SHOULD_RETRY)

/*
* The next three are used in conjunction with the BIO_should_io_special()
* condition.  After this returns true, BIO *BIO_get_retry_BIO(BIO *bio, int
* *reason); will walk the BIO stack and return the 'reason' for the special
* and the offending
 BIO. Given a BIO, BIO_get_retry_reason(bio) will return
* the code.
*/
/*
* Returned from the SSL bio when the certificate retrieval code had an error
*/
# define BIO_RR_SSL_X509_LOOKUP          0x01
/* Returned from the connect BIO when a connect would have blocked */
# define BIO_RR_CONNECT                  0x02
/* Returned from the accept BIO when an accept would have blocked */
# define BIO_RR_ACCEPT                   0x03

/* These are passed by the BIO callback */
# define BIO_CB_FREE     0x01
# define BIO_CB_READ     0x02
# define BIO_CB_WRITE    0x03
# define BIO_CB_PUTS     0x04
# define BIO_CB_GETS     0x05
# define BIO_CB_CTRL     0x06

/*
* The callback is called before and after the underling operation, The
* BIO_CB_RETURN flag indicates if it is after the call
*/
# define BIO_CB_RETURN   0x80
# define BIO_CB_return(a) ((a)|BIO_CB_RETURN)
# define BIO_cb_pre(a)   (!((a)&BIO_CB_RETURN))
```

```
# define BIO_cb_post(a)  ((a)&BIO_CB_RETURN)

# ifndef OPENSSL_NO_DEPRECATED_3_0
typedef
 long (*BIO_callback_fn)(BIO *b, int oper, const char *argp, int argi,
                         long argl, long ret);
OSSL_DEPRECATEDIN_3_0 BIO_callback_fn BIO_get_callback(const BIO *b);
OSSL_DEPRECATEDIN_3_0 void BIO_set_callback(BIO *b, BIO_callback_fn callback);
OSSL_DEPRECATEDIN_3_0 long BIO_debug_callback(BIO *bio, int cmd,
                                    const char *argp, int argi,
                                    long argl, long ret);
# endif

typedef long (*BIO_callback_fn_ex)(BIO *b, int oper, const char *argp,
                           size_t len, int argi,
                           long argl, int ret, size_t *processed);
BIO_callback_fn_ex BIO_get_callback_ex(const BIO *b);
void BIO_set_callback_ex(BIO *b, BIO_callback_fn_ex callback);
long BIO_debug_callback_ex(BIO *bio, int oper, const char *argp, size_t len,
                     int argi, long argl, int ret, size_t *processed);

char *BIO_get_callback_arg(const
 BIO *b);
void BIO_set_callback_arg(BIO *b, char *arg);

typedef struct bio_method_st BIO_METHOD;

const char *BIO_method_name(const BIO *b);
int BIO_method_type(const BIO *b);

typedef int BIO_info_cb(BIO *, int, int);
typedef BIO_info_cb bio_info_cb;  /* backward compatibility */

SKM_DEFINE_STACK_OF_INTERNAL(BIO, BIO, BIO)
#define sk_BIO_num(sk) OPENSSL_sk_num(ossl_check_const_BIO_sk_type(sk))
#define sk_BIO_value(sk, idx) ((BIO *)OPENSSL_sk_value(ossl_check_const_BIO_sk_type(sk), (idx)))
#define sk_BIO_new(cmp) ((STACK_OF(BIO) *)OPENSSL_sk_new(ossl_check_BIO_compfunc_type(cmp)))
#define sk_BIO_new_null() ((STACK_OF(BIO) *)OPENSSL_sk_new_null())
#define sk_BIO_new_reserve(cmp, n) ((STACK_OF(BIO)
*)OPENSSL_sk_new_reserve(ossl_check_BIO_compfunc_type(cmp), (n)))
#define sk_BIO_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_BIO_sk_type(sk), (n))
#define sk_BIO_free(sk) OPENSSL_sk_free(ossl_check_BIO_sk_type(sk))
#define sk_BIO_zero(sk) OPENSSL_sk_zero(ossl_check_BIO_sk_type(sk))
#define
 sk_BIO_delete(sk, i) ((BIO *)OPENSSL_sk_delete(ossl_check_BIO_sk_type(sk), (i)))
#define sk_BIO_delete_ptr(sk, ptr) ((BIO *)OPENSSL_sk_delete_ptr(ossl_check_BIO_sk_type(sk),
ossl_check_BIO_type(ptr)))
#define sk_BIO_push(sk, ptr) OPENSSL_sk_push(ossl_check_BIO_sk_type(sk), ossl_check_BIO_type(ptr))
```

```
#define sk_BIO_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_BIO_sk_type(sk), ossl_check_BIO_type(ptr))
#define sk_BIO_pop(sk) ((BIO *)OPENSSL_sk_pop(ossl_check_BIO_sk_type(sk)))
#define sk_BIO_shift(sk) ((BIO *)OPENSSL_sk_shift(ossl_check_BIO_sk_type(sk)))
#define sk_BIO_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_BIO_sk_type(sk),ossl_check_BIO_freefunc_type(freefunc))
#define sk_BIO_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_BIO_sk_type(sk), ossl_check_BIO_type(ptr),
(idx))
#define sk_BIO_set(sk, idx, ptr) ((BIO *)OPENSSL_sk_set(ossl_check_BIO_sk_type(sk), (idx),
ossl_check_BIO_type(ptr)))
#define sk_BIO_find(sk, ptr) OPENSSL_sk_find(ossl_check_BIO_sk_type(sk), ossl_check_BIO_type(ptr))
#define
 sk_BIO_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_BIO_sk_type(sk), ossl_check_BIO_type(ptr))
#define sk_BIO_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_BIO_sk_type(sk),
ossl_check_BIO_type(ptr), pnum)
#define sk_BIO_sort(sk) OPENSSL_sk_sort(ossl_check_BIO_sk_type(sk))
#define sk_BIO_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_BIO_sk_type(sk))
#define sk_BIO_dup(sk) ((STACK_OF(BIO) *)OPENSSL_sk_dup(ossl_check_const_BIO_sk_type(sk)))
#define sk_BIO_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(BIO)
*)OPENSSL_sk_deep_copy(ossl_check_const_BIO_sk_type(sk), ossl_check_BIO_copyfunc_type(copyfunc),
ossl_check_BIO_freefunc_type(freefunc)))
#define sk_BIO_set_cmp_func(sk, cmp)
((sk_BIO_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_BIO_sk_type(sk),
ossl_check_BIO_compfunc_type(cmp)))



/* Prefix and suffix callback in ASN1 BIO */
typedef int asn1_ps_func (BIO *b, unsigned char **pbuf, int *plen,
                          void *parg);

typedef void
 (*BIO_dgram_sctp_notification_handler_fn) (BIO *b,
                                            void *context,
                                            void *buf);
# ifndef OPENSSL_NO_SCTP
/* SCTP parameter structs */
struct bio_dgram_sctp_sndinfo {
   uint16_t snd_sid;
   uint16_t snd_flags;
   uint32_t snd_ppid;
   uint32_t snd_context;
};

struct bio_dgram_sctp_rcvinfo {
   uint16_t rcv_sid;
   uint16_t rcv_ssn;
   uint16_t rcv_flags;
   uint32_t rcv_ppid;
```

```
   uint32_t rcv_tsn;
   uint32_t rcv_cumtsn;
   uint32_t rcv_context;
};

struct bio_dgram_sctp_prinfo {
   uint16_t pr_policy;
   uint32_t pr_value;
};
# endif

/*
* #define BIO_CONN_get_param_hostname BIO_ctrl
*/

# define BIO_C_SET_CONNECT                    100
# define BIO_C_DO_STATE_MACHINE               101
# define BIO_C_SET_NBIO                       102
/* # define BIO_C_SET_PROXY_PARAM              103 */
# define BIO_C_SET_FD                         104
# define
 BIO_C_GET_FD                                 105
# define BIO_C_SET_FILE_PTR                   106
# define BIO_C_GET_FILE_PTR                   107
# define BIO_C_SET_FILENAME                   108
# define BIO_C_SET_SSL                        109
# define BIO_C_GET_SSL                        110
# define BIO_C_SET_MD                         111
# define BIO_C_GET_MD                         112
# define BIO_C_GET_CIPHER_STATUS              113
# define BIO_C_SET_BUF_MEM                    114
# define BIO_C_GET_BUF_MEM_PTR                115
# define BIO_C_GET_BUFF_NUM_LINES             116
# define BIO_C_SET_BUFF_SIZE                  117
# define BIO_C_SET_ACCEPT                     118
# define BIO_C_SSL_MODE                       119
# define BIO_C_GET_MD_CTX                     120
/* # define BIO_C_GET_PROXY_PARAM              121 */
# define BIO_C_SET_BUFF_READ_DATA             122/* data to read first */
# define BIO_C_GET_CONNECT
                    123
# define BIO_C_GET_ACCEPT                     124
# define BIO_C_SET_SSL_RENEGOTIATE_BYTES      125
# define BIO_C_GET_SSL_NUM_RENEGOTIATES       126
# define BIO_C_SET_SSL_RENEGOTIATE_TIMEOUT    127
# define BIO_C_FILE_SEEK                      128
# define BIO_C_GET_CIPHER_CTX                 129
# define BIO_C_SET_BUF_MEM_EOF_RETURN         130/* return end of input
```

```
                                        * value */
# define BIO_C_SET_BIND_MODE                    131
# define BIO_C_GET_BIND_MODE                    132
# define BIO_C_FILE_TELL                        133
# define BIO_C_GET_SOCKS                        134
# define BIO_C_SET_SOCKS                        135

# define BIO_C_SET_WRITE_BUF_SIZE               136/* for BIO_s_bio */
# define BIO_C_GET_WRITE_BUF_SIZE               137
# define BIO_C_MAKE_BIO_PAIR                    138
# define BIO_C_DESTROY_BIO_PAIR                 139
# define BIO_C_GET_WRITE_GUARANTEE
            140
# define BIO_C_GET_READ_REQUEST                 141
# define BIO_C_SHUTDOWN_WR                      142
# define BIO_C_NREAD0                           143
# define BIO_C_NREAD                            144
# define BIO_C_NWRITE0                          145
# define BIO_C_NWRITE                           146
# define BIO_C_RESET_READ_REQUEST               147
# define BIO_C_SET_MD_CTX                       148

# define BIO_C_SET_PREFIX                       149
# define BIO_C_GET_PREFIX                       150
# define BIO_C_SET_SUFFIX                       151
# define BIO_C_GET_SUFFIX                       152

# define BIO_C_SET_EX_ARG                       153
# define BIO_C_GET_EX_ARG                       154

# define BIO_C_SET_CONNECT_MODE                 155

# define BIO_set_app_data(s,arg)        BIO_set_ex_data(s,0,arg)
# define BIO_get_app_data(s)            BIO_get_ex_data(s,0)

# define BIO_set_nbio(b,n)
       BIO_ctrl(b,BIO_C_SET_NBIO,(n),NULL)

# ifndef OPENSSL_NO_SOCK
/* IP families we support, for BIO_s_connect() and BIO_s_accept() */
/* Note: the underlying operating system may not support some of them */
#  define BIO_FAMILY_IPV4                       4
#  define BIO_FAMILY_IPV6                       6
#  define BIO_FAMILY_IPANY                      256

/* BIO_s_connect() */
#  define BIO_set_conn_hostname(b,name) BIO_ctrl(b,BIO_C_SET_CONNECT,0, \
                                        (char *)(name))
```

```
#  define BIO_set_conn_port(b,port)     BIO_ctrl(b,BIO_C_SET_CONNECT,1, \
                                        (char *)(port))
#  define BIO_set_conn_address(b,addr)  BIO_ctrl(b,BIO_C_SET_CONNECT,2, \
                                        (char *)(addr))
#  define BIO_set_conn_ip_family(b,f)   BIO_int_ctrl(b,BIO_C_SET_CONNECT,3,f)
#  define BIO_get_conn_hostname(b)      ((const char *)BIO_ptr_ctrl(b,BIO_C_GET_CONNECT,0))
#  define BIO_get_conn_port(b)
        ((const char *)BIO_ptr_ctrl(b,BIO_C_GET_CONNECT,1))
#  define BIO_get_conn_address(b)       ((const BIO_ADDR *)BIO_ptr_ctrl(b,BIO_C_GET_CONNECT,2))
#  define BIO_get_conn_ip_family(b)     BIO_ctrl(b,BIO_C_GET_CONNECT,3,NULL)
#  define BIO_set_conn_mode(b,n)        BIO_ctrl(b,BIO_C_SET_CONNECT_MODE,(n),NULL)

/* BIO_s_accept() */
#  define BIO_set_accept_name(b,name)   BIO_ctrl(b,BIO_C_SET_ACCEPT,0, \
                                        (char *)(name))
#  define BIO_set_accept_port(b,port)   BIO_ctrl(b,BIO_C_SET_ACCEPT,1, \
                                        (char *)(port))
#  define BIO_get_accept_name(b)        ((const char *)BIO_ptr_ctrl(b,BIO_C_GET_ACCEPT,0))
#  define BIO_get_accept_port(b)        ((const char *)BIO_ptr_ctrl(b,BIO_C_GET_ACCEPT,1))
#  define BIO_get_peer_name(b)          ((const char *)BIO_ptr_ctrl(b,BIO_C_GET_ACCEPT,2))
#  define BIO_get_peer_port(b)          ((const char *)BIO_ptr_ctrl(b,BIO_C_GET_ACCEPT,3))
/* #define
 BIO_set_nbio(b,n)    BIO_ctrl(b,BIO_C_SET_NBIO,(n),NULL) */
#  define BIO_set_nbio_accept(b,n)      BIO_ctrl(b,BIO_C_SET_ACCEPT,2,(n)?(void *)"a":NULL)
#  define BIO_set_accept_bios(b,bio)    BIO_ctrl(b,BIO_C_SET_ACCEPT,3, \
                                        (char *)(bio))
#  define BIO_set_accept_ip_family(b,f) BIO_int_ctrl(b,BIO_C_SET_ACCEPT,4,f)
#  define BIO_get_accept_ip_family(b)   BIO_ctrl(b,BIO_C_GET_ACCEPT,4,NULL)

/* Aliases kept for backward compatibility */
#  define BIO_BIND_NORMAL                 0
#  define BIO_BIND_REUSEADDR              BIO_SOCK_REUSEADDR
#  define BIO_BIND_REUSEADDR_IF_UNUSED    BIO_SOCK_REUSEADDR
#  define BIO_set_bind_mode(b,mode) BIO_ctrl(b,BIO_C_SET_BIND_MODE,mode,NULL)
#  define BIO_get_bind_mode(b)    BIO_ctrl(b,BIO_C_GET_BIND_MODE,0,NULL)
# endif /* OPENSSL_NO_SOCK */

# define BIO_do_connect(b)       BIO_do_handshake(b)
# define BIO_do_accept(b)        BIO_do_handshake(b)

# define BIO_do_handshake(b)     BIO_ctrl(b,BIO_C_DO_STATE_MACHINE,0,NULL)

/*
 BIO_s_datagram(), BIO_s_fd(), BIO_s_socket(), BIO_s_accept() and BIO_s_connect() */
# define BIO_set_fd(b,fd,c)      BIO_int_ctrl(b,BIO_C_SET_FD,c,fd)
# define BIO_get_fd(b,c)         BIO_ctrl(b,BIO_C_GET_FD,0,(char *)(c))

/* BIO_s_file() */
```

```
# define BIO_set_fp(b,fp,c)      BIO_ctrl(b,BIO_C_SET_FILE_PTR,c,(char *)(fp))
# define BIO_get_fp(b,fpp)       BIO_ctrl(b,BIO_C_GET_FILE_PTR,0,(char *)(fpp))

/* BIO_s_fd() and BIO_s_file() */
# define BIO_seek(b,ofs) (int)BIO_ctrl(b,BIO_C_FILE_SEEK,ofs,NULL)
# define BIO_tell(b)     (int)BIO_ctrl(b,BIO_C_FILE_TELL,0,NULL)

/*
* name is cast to lose const, but might be better to route through a
* function so we can do it safely
*/
# ifdef CONST_STRICT
/*
* If you are wondering why this isn't defined, its because CONST_STRICT is
* purely a compile-time kludge to allow const to be checked.
*/
int BIO_read_filename(BIO *b, const char *name);
# else
#  define BIO_read_filename(b,name) (int)BIO_ctrl(b,BIO_C_SET_FILENAME,
 \
            BIO_CLOSE|BIO_FP_READ,(char *)(name))
# endif
# define BIO_write_filename(b,name) (int)BIO_ctrl(b,BIO_C_SET_FILENAME, \
            BIO_CLOSE|BIO_FP_WRITE,name)
# define BIO_append_filename(b,name) (int)BIO_ctrl(b,BIO_C_SET_FILENAME, \
            BIO_CLOSE|BIO_FP_APPEND,name)
# define BIO_rw_filename(b,name) (int)BIO_ctrl(b,BIO_C_SET_FILENAME, \
            BIO_CLOSE|BIO_FP_READ|BIO_FP_WRITE,name)

/*
* WARNING WARNING, this ups the reference count on the read bio of the SSL
* structure.  This is because the ssl read BIO is now pointed to by the
* next_bio field in the bio.  So when you free the BIO, make sure you are
* doing a BIO_free_all() to catch the underlying BIO.
*/
# define BIO_set_ssl(b,ssl,c)    BIO_ctrl(b,BIO_C_SET_SSL,c,(char *)(ssl))
# define BIO_get_ssl(b,sslp)     BIO_ctrl(b,BIO_C_GET_SSL,0,(char *)(sslp))
# define BIO_set_ssl_mode(b,client)      BIO_ctrl(b,BIO_C_SSL_MODE,client,NULL)
# define BIO_set_ssl_renegotiate_bytes(b,num) \

      BIO_ctrl(b,BIO_C_SET_SSL_RENEGOTIATE_BYTES,num,NULL)
# define BIO_get_num_renegotiates(b) \
      BIO_ctrl(b,BIO_C_GET_SSL_NUM_RENEGOTIATES,0,NULL)
# define BIO_set_ssl_renegotiate_timeout(b,seconds) \
      BIO_ctrl(b,BIO_C_SET_SSL_RENEGOTIATE_TIMEOUT,seconds,NULL)

/* defined in evp.h */
/* #define BIO_set_md(b,md)     BIO_ctrl(b,BIO_C_SET_MD,1,(char *)(md)) */
```

```
# define BIO_get_mem_data(b,pp)  BIO_ctrl(b,BIO_CTRL_INFO,0,(char *)(pp))
# define BIO_set_mem_buf(b,bm,c) BIO_ctrl(b,BIO_C_SET_BUF_MEM,c,(char *)(bm))
# define BIO_get_mem_ptr(b,pp)   BIO_ctrl(b,BIO_C_GET_BUF_MEM_PTR,0, \
                                 (char *)(pp))
# define BIO_set_mem_eof_return(b,v) \
                         BIO_ctrl(b,BIO_C_SET_BUF_MEM_EOF_RETURN,v,NULL)

/* For the BIO_f_buffer() type */
# define BIO_get_buffer_num_lines(b)     BIO_ctrl(b,BIO_C_GET_BUFF_NUM_LINES,0,NULL)
# define BIO_set_buffer_size(b,size)     BIO_ctrl(b,BIO_C_SET_BUFF_SIZE,size,NULL)
# define BIO_set_read_buffer_size(b,size)
 BIO_int_ctrl(b,BIO_C_SET_BUFF_SIZE,size,0)
# define BIO_set_write_buffer_size(b,size) BIO_int_ctrl(b,BIO_C_SET_BUFF_SIZE,size,1)
# define BIO_set_buffer_read_data(b,buf,num) BIO_ctrl(b,BIO_C_SET_BUFF_READ_DATA,num,buf)

/* Don't use the next one unless you know what you are doing :-) */
# define BIO_dup_state(b,ret)    BIO_ctrl(b,BIO_CTRL_DUP,0,(char *)(ret))

# define BIO_reset(b)            (int)BIO_ctrl(b,BIO_CTRL_RESET,0,NULL)
# define BIO_eof(b)              (int)BIO_ctrl(b,BIO_CTRL_EOF,0,NULL)
# define BIO_set_close(b,c)      (int)BIO_ctrl(b,BIO_CTRL_SET_CLOSE,(c),NULL)
# define BIO_get_close(b)        (int)BIO_ctrl(b,BIO_CTRL_GET_CLOSE,0,NULL)
# define BIO_pending(b)          (int)BIO_ctrl(b,BIO_CTRL_PENDING,0,NULL)
# define BIO_wpending(b)         (int)BIO_ctrl(b,BIO_CTRL_WPENDING,0,NULL)
/* ...pending macros have inappropriate return type */
size_t BIO_ctrl_pending(BIO *b);
size_t BIO_ctrl_wpending(BIO *b);
# define BIO_flush(b)            (int)BIO_ctrl(b,BIO_CTRL_FLUSH,0,NULL)
#
 define BIO_get_info_callback(b,cbp) (int)BIO_ctrl(b,BIO_CTRL_GET_CALLBACK,0, \
                                     cbp)
# define BIO_set_info_callback(b,cb) (int)BIO_callback_ctrl(b,BIO_CTRL_SET_CALLBACK,cb)

/* For the BIO_f_buffer() type */
# define BIO_buffer_get_num_lines(b) BIO_ctrl(b,BIO_CTRL_GET,0,NULL)
# define BIO_buffer_peek(b,s,l) BIO_ctrl(b,BIO_CTRL_PEEK,(l),(s))

/* For BIO_s_bio() */
# define BIO_set_write_buf_size(b,size) (int)BIO_ctrl(b,BIO_C_SET_WRITE_BUF_SIZE,size,NULL)
# define BIO_get_write_buf_size(b,size) (size_t)BIO_ctrl(b,BIO_C_GET_WRITE_BUF_SIZE,size,NULL)
# define BIO_make_bio_pair(b1,b2)   (int)BIO_ctrl(b1,BIO_C_MAKE_BIO_PAIR,0,b2)
# define BIO_destroy_bio_pair(b)    (int)BIO_ctrl(b,BIO_C_DESTROY_BIO_PAIR,0,NULL)
# define BIO_shutdown_wr(b) (int)BIO_ctrl(b, BIO_C_SHUTDOWN_WR, 0, NULL)
/* macros with inappropriate type -- but ...pending macros use int too: */
# define BIO_get_write_guarantee(b) (int)BIO_ctrl(b,BIO_C_GET_WRITE_GUARANTEE,0,NULL)
#
```

```
 define BIO_get_read_request(b)    (int)BIO_ctrl(b,BIO_C_GET_READ_REQUEST,0,NULL)
size_t BIO_ctrl_get_write_guarantee(BIO *b);
size_t BIO_ctrl_get_read_request(BIO *b);
int BIO_ctrl_reset_read_request(BIO *b);

/* ctrl macros for dgram */
# define BIO_ctrl_dgram_connect(b,peer)  \
                (int)BIO_ctrl(b,BIO_CTRL_DGRAM_CONNECT,0, (char *)(peer))
# define BIO_ctrl_set_connected(b,peer) \
       (int)BIO_ctrl(b, BIO_CTRL_DGRAM_SET_CONNECTED, 0, (char *)(peer))
# define BIO_dgram_recv_timedout(b) \
       (int)BIO_ctrl(b, BIO_CTRL_DGRAM_GET_RECV_TIMER_EXP, 0, NULL)
# define BIO_dgram_send_timedout(b) \
       (int)BIO_ctrl(b, BIO_CTRL_DGRAM_GET_SEND_TIMER_EXP, 0, NULL)
# define BIO_dgram_get_peer(b,peer) \
       (int)BIO_ctrl(b, BIO_CTRL_DGRAM_GET_PEER, 0, (char *)(peer))
# define BIO_dgram_set_peer(b,peer) \
       (int)BIO_ctrl(b, BIO_CTRL_DGRAM_SET_PEER, 0, (char *)(peer))
# define BIO_dgram_get_mtu_overhead(b) \
       (unsigned int)BIO_ctrl((b),
 BIO_CTRL_DGRAM_GET_MTU_OVERHEAD, 0, NULL)

/* ctrl macros for BIO_f_prefix */
# define BIO_set_prefix(b,p) BIO_ctrl((b), BIO_CTRL_SET_PREFIX, 0, (void *)(p))
# define BIO_set_indent(b,i) BIO_ctrl((b), BIO_CTRL_SET_INDENT, (i), NULL)
# define BIO_get_indent(b) BIO_ctrl((b), BIO_CTRL_GET_INDENT, 0, NULL)

#define BIO_get_ex_new_index(l, p, newf, dupf, freef) \
   CRYPTO_get_ex_new_index(CRYPTO_EX_INDEX_BIO, l, p, newf, dupf, freef)
int BIO_set_ex_data(BIO *bio, int idx, void *data);
void *BIO_get_ex_data(const BIO *bio, int idx);
uint64_t BIO_number_read(BIO *bio);
uint64_t BIO_number_written(BIO *bio);

/* For BIO_f_asn1() */
int BIO_asn1_set_prefix(BIO *b, asn1_ps_func *prefix,
                    asn1_ps_func *prefix_free);
int BIO_asn1_get_prefix(BIO *b, asn1_ps_func **pprefix,
                    asn1_ps_func **pprefix_free);
int BIO_asn1_set_suffix(BIO *b, asn1_ps_func *suffix,
                    asn1_ps_func *suffix_free);
int BIO_asn1_get_suffix(BIO *b,
 asn1_ps_func **psuffix,
                    asn1_ps_func **psuffix_free);

const BIO_METHOD *BIO_s_file(void);
BIO *BIO_new_file(const char *filename, const char *mode);
BIO *BIO_new_from_core_bio(OSSL_LIB_CTX *libctx, OSSL_CORE_BIO *corebio);
```

```
# ifndef OPENSSL_NO_STDIO
BIO *BIO_new_fp(FILE *stream, int close_flag);
# endif
BIO *BIO_new_ex(OSSL_LIB_CTX *libctx, const BIO_METHOD *method);
BIO *BIO_new(const BIO_METHOD *type);
int BIO_free(BIO *a);
void BIO_set_data(BIO *a, void *ptr);
void *BIO_get_data(BIO *a);
void BIO_set_init(BIO *a, int init);
int BIO_get_init(BIO *a);
void BIO_set_shutdown(BIO *a, int shut);
int BIO_get_shutdown(BIO *a);
void BIO_vfree(BIO *a);
int BIO_up_ref(BIO *a);
int BIO_read(BIO *b, void *data, int dlen);
int BIO_read_ex(BIO *b, void *data, size_t dlen, size_t *readbytes);
int BIO_gets(BIO *bp, char *buf, int size);
int BIO_get_line(BIO *bio, char *buf, int size);
int BIO_write(BIO *b, const void *data, int dlen);
int BIO_write_ex(BIO *b, const void *data,
 size_t dlen, size_t *written);
int BIO_puts(BIO *bp, const char *buf);
int BIO_indent(BIO *b, int indent, int max);
long BIO_ctrl(BIO *bp, int cmd, long larg, void *parg);
long BIO_callback_ctrl(BIO *b, int cmd, BIO_info_cb *fp);
void *BIO_ptr_ctrl(BIO *bp, int cmd, long larg);
long BIO_int_ctrl(BIO *bp, int cmd, long larg, int iarg);
BIO *BIO_push(BIO *b, BIO *append);
BIO *BIO_pop(BIO *b);
void BIO_free_all(BIO *a);
BIO *BIO_find_type(BIO *b, int bio_type);
BIO *BIO_next(BIO *b);
void BIO_set_next(BIO *b, BIO *next);
BIO *BIO_get_retry_BIO(BIO *bio, int *reason);
int BIO_get_retry_reason(BIO *bio);
void BIO_set_retry_reason(BIO *bio, int reason);
BIO *BIO_dup_chain(BIO *in);

int BIO_nread0(BIO *bio, char **buf);
int BIO_nread(BIO *bio, char **buf, int num);
int BIO_nwrite0(BIO *bio, char **buf);
int BIO_nwrite(BIO *bio, char **buf, int num);

const BIO_METHOD *BIO_s_mem(void);
const BIO_METHOD *BIO_s_secmem(void);
BIO *BIO_new_mem_buf(const void *buf, int len);
# ifndef OPENSSL_NO_SOCK
const
```

```
 BIO_METHOD *BIO_s_socket(void);
const BIO_METHOD *BIO_s_connect(void);
const BIO_METHOD *BIO_s_accept(void);
# endif
const BIO_METHOD *BIO_s_fd(void);
const BIO_METHOD *BIO_s_log(void);
const BIO_METHOD *BIO_s_bio(void);
const BIO_METHOD *BIO_s_null(void);
const BIO_METHOD *BIO_f_null(void);
const BIO_METHOD *BIO_f_buffer(void);
const BIO_METHOD *BIO_f_readbuffer(void);
const BIO_METHOD *BIO_f_linebuffer(void);
const BIO_METHOD *BIO_f_nbio_test(void);
const BIO_METHOD *BIO_f_prefix(void);
const BIO_METHOD *BIO_s_core(void);
# ifndef OPENSSL_NO_DGRAM
const BIO_METHOD *BIO_s_datagram(void);
int BIO_dgram_non_fatal_error(int error);
BIO *BIO_new_dgram(int fd, int close_flag);
#  ifndef OPENSSL_NO_SCTP
const BIO_METHOD *BIO_s_datagram_sctp(void);
BIO *BIO_new_dgram_sctp(int fd, int close_flag);
int BIO_dgram_is_sctp(BIO *bio);
int BIO_dgram_sctp_notification_cb(BIO *b,
            BIO_dgram_sctp_notification_handler_fn handle_notifications,
            void *context);
int
 BIO_dgram_sctp_wait_for_dry(BIO *b);
int BIO_dgram_sctp_msg_waiting(BIO *b);
#  endif
# endif

# ifndef OPENSSL_NO_SOCK
int BIO_sock_should_retry(int i);
int BIO_sock_non_fatal_error(int error);
int BIO_socket_wait(int fd, int for_read, time_t max_time);
# endif
int BIO_wait(BIO *bio, time_t max_time, unsigned int nap_milliseconds);
int BIO_do_connect_retry(BIO *bio, int timeout, int nap_milliseconds);

int BIO_fd_should_retry(int i);
int BIO_fd_non_fatal_error(int error);
int BIO_dump_cb(int (*cb) (const void *data, size_t len, void *u),
            void *u, const void *s, int len);
int BIO_dump_indent_cb(int (*cb) (const void *data, size_t len, void *u),
                void *u, const void *s, int len, int indent);
int BIO_dump(BIO *b, const void *bytes, int len);
int BIO_dump_indent(BIO *b, const void *bytes, int len, int indent);
```

```
# ifndef OPENSSL_NO_STDIO
int BIO_dump_fp(FILE *fp, const void *s, int len);
int BIO_dump_indent_fp(FILE *fp, const void *s, int len, int indent);
#
 endif
int BIO_hex_string(BIO *out, int indent, int width, const void *data,
                int datalen);

# ifndef OPENSSL_NO_SOCK
BIO_ADDR *BIO_ADDR_new(void);
int BIO_ADDR_rawmake(BIO_ADDR *ap, int family,
                  const void *where, size_t wherelen, unsigned short port);
void BIO_ADDR_free(BIO_ADDR *);
void BIO_ADDR_clear(BIO_ADDR *ap);
int BIO_ADDR_family(const BIO_ADDR *ap);
int BIO_ADDR_rawaddress(const BIO_ADDR *ap, void *p, size_t *l);
unsigned short BIO_ADDR_rawport(const BIO_ADDR *ap);
char *BIO_ADDR_hostname_string(const BIO_ADDR *ap, int numeric);
char *BIO_ADDR_service_string(const BIO_ADDR *ap, int numeric);
char *BIO_ADDR_path_string(const BIO_ADDR *ap);

const BIO_ADDRINFO *BIO_ADDRINFO_next(const BIO_ADDRINFO *bai);
int BIO_ADDRINFO_family(const BIO_ADDRINFO *bai);
int BIO_ADDRINFO_socktype(const BIO_ADDRINFO *bai);
int BIO_ADDRINFO_protocol(const BIO_ADDRINFO *bai);
const BIO_ADDR *BIO_ADDRINFO_address(const BIO_ADDRINFO *bai);
void BIO_ADDRINFO_free(BIO_ADDRINFO
 *bai);

enum BIO_hostserv_priorities {
   BIO_PARSE_PRIO_HOST, BIO_PARSE_PRIO_SERV
};
int BIO_parse_hostserv(const char *hostserv, char **host, char **service,
                    enum BIO_hostserv_priorities hostserv_prio);
enum BIO_lookup_type {
   BIO_LOOKUP_CLIENT, BIO_LOOKUP_SERVER
};
int BIO_lookup(const char *host, const char *service,
             enum BIO_lookup_type lookup_type,
             int family, int socktype, BIO_ADDRINFO **res);
int BIO_lookup_ex(const char *host, const char *service,
                int lookup_type, int family, int socktype, int protocol,
                BIO_ADDRINFO **res);
int BIO_sock_error(int sock);
int BIO_socket_ioctl(int fd, long type, void *arg);
int BIO_socket_nbio(int fd, int mode);
int BIO_sock_init(void);
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
```

```
#  define BIO_sock_cleanup() while(0) continue
# endif
int BIO_set_tcp_ndelay(int sock, int turn_on);
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0 struct
 hostent *BIO_gethostbyname(const char *name);
OSSL_DEPRECATEDIN_1_1_0 int BIO_get_port(const char *str, unsigned short *port_ptr);
OSSL_DEPRECATEDIN_1_1_0 int BIO_get_host_ip(const char *str, unsigned char *ip);
OSSL_DEPRECATEDIN_1_1_0 int BIO_get_accept_socket(char *host_port, int mode);
OSSL_DEPRECATEDIN_1_1_0 int BIO_accept(int sock, char **ip_port);
# endif

union BIO_sock_info_u {
   BIO_ADDR *addr;
};
enum BIO_sock_info_type {
   BIO_SOCK_INFO_ADDRESS
};
int BIO_sock_info(int sock,
                enum BIO_sock_info_type type, union BIO_sock_info_u *info);

#  define BIO_SOCK_REUSEADDR    0x01
#  define BIO_SOCK_V6_ONLY      0x02
#  define BIO_SOCK_KEEPALIVE    0x04
#  define BIO_SOCK_NONBLOCK     0x08
#  define BIO_SOCK_NODELAY      0x10

int BIO_socket(int domain, int socktype, int protocol, int options);
int BIO_connect(int sock, const BIO_ADDR *addr, int options);
int BIO_bind(int sock, const BIO_ADDR *addr, int options);
int BIO_listen(int sock, const BIO_ADDR *addr,
 int options);
int BIO_accept_ex(int accept_sock, BIO_ADDR *addr, int options);
int BIO_closesocket(int sock);

BIO *BIO_new_socket(int sock, int close_flag);
BIO *BIO_new_connect(const char *host_port);
BIO *BIO_new_accept(const char *host_port);
# endif /* OPENSSL_NO_SOCK*/

BIO *BIO_new_fd(int fd, int close_flag);

int BIO_new_bio_pair(BIO **bio1, size_t writebuf1,
                  BIO **bio2, size_t writebuf2);
/*
* If successful, returns 1 and in *bio1, *bio2 two BIO pair endpoints.
* Otherwise returns 0 and sets *bio1 and *bio2 to NULL. Size 0 uses default
* value.
```

```
*/

void BIO_copy_next_retry(BIO *b);

/*
* long BIO_ghbn_ctrl(int cmd,int iarg,char *parg);
*/

# define ossl_bio__attr__(x)
# if defined(__GNUC__) && defined(__STDC_VERSION__) \
   && !defined(__MINGW32__) && !defined(__MINGW64__) \
   && !defined(__APPLE__)
   /*
    * Because we support the 'z' modifier, which made its appearance in C99,
    * we can't use __attribute__ with pre C99 dialects.

 */
#  if __STDC_VERSION__ >= 199901L
#   undef ossl_bio__attr__
#   define ossl_bio__attr__ __attribute__
#   if __GNUC__*10 + __GNUC_MINOR__ >= 44
#    define ossl_bio__printf__ __gnu_printf__
#   else
#    define ossl_bio__printf__ __printf__
#   endif
#  endif
# endif
int BIO_printf(BIO *bio, const char *format, ...)
ossl_bio__attr__((__format__(ossl_bio__printf__, 2, 3)));
int BIO_vprintf(BIO *bio, const char *format, va_list args)
ossl_bio__attr__((__format__(ossl_bio__printf__, 2, 0)));
int BIO_snprintf(char *buf, size_t n, const char *format, ...)
ossl_bio__attr__((__format__(ossl_bio__printf__, 3, 4)));
int BIO_vsnprintf(char *buf, size_t n, const char *format, va_list args)
ossl_bio__attr__((__format__(ossl_bio__printf__, 3, 0)));
# undef ossl_bio__attr__
# undef ossl_bio__printf__


BIO_METHOD *BIO_meth_new(int type, const char *name);
void BIO_meth_free(BIO_METHOD *biom);
int (*BIO_meth_get_write(const BIO_METHOD *biom)) (BIO *, const char *, int);
int (*BIO_meth_get_write_ex(const
 BIO_METHOD *biom)) (BIO *, const char *, size_t,
                                    size_t *);
int BIO_meth_set_write(BIO_METHOD *biom,
                    int (*write) (BIO *, const char *, int));
int BIO_meth_set_write_ex(BIO_METHOD *biom,
```

```
                int (*bwrite) (BIO *, const char *, size_t, size_t *));
int (*BIO_meth_get_read(const BIO_METHOD *biom)) (BIO *, char *, int);
int (*BIO_meth_get_read_ex(const BIO_METHOD *biom)) (BIO *, char *, size_t, size_t *);
int BIO_meth_set_read(BIO_METHOD *biom,
                int (*read) (BIO *, char *, int));
int BIO_meth_set_read_ex(BIO_METHOD *biom,
                  int (*bread) (BIO *, char *, size_t, size_t *));
int (*BIO_meth_get_puts(const BIO_METHOD *biom)) (BIO *, const char *);
int BIO_meth_set_puts(BIO_METHOD *biom,
                int (*puts) (BIO *, const char *));
int (*BIO_meth_get_gets(const BIO_METHOD *biom)) (BIO *, char *, int);
int BIO_meth_set_gets(BIO_METHOD *biom,

                int (*ossl_gets) (BIO *, char *, int));
long (*BIO_meth_get_ctrl(const BIO_METHOD *biom)) (BIO *, int, long, void *);
int BIO_meth_set_ctrl(BIO_METHOD *biom,
                long (*ctrl) (BIO *, int, long, void *));
int (*BIO_meth_get_create(const BIO_METHOD *bion)) (BIO *);
int BIO_meth_set_create(BIO_METHOD *biom, int (*create) (BIO *));
int (*BIO_meth_get_destroy(const BIO_METHOD *biom)) (BIO *);
int BIO_meth_set_destroy(BIO_METHOD *biom, int (*destroy) (BIO *));
long (*BIO_meth_get_callback_ctrl(const BIO_METHOD *biom))
                        (BIO *, int, BIO_info_cb *);
int BIO_meth_set_callback_ctrl(BIO_METHOD *biom,
                      long (*callback_ctrl) (BIO *, int,
                                    BIO_info_cb *));

# ifdef  __cplusplus
}
# endif
#endif
```

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console.log('ok');
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/srp.h.in
*
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*
* Originally written by Christophe Renou and Peter Sylvester,
* for the EdelKey project.
*/



#ifndef OPENSSL_SRP_H
# define OPENSSL_SRP_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_SRP_H
# endif

#include <openssl/opensslconf.h>

#ifndef OPENSSL_NO_SRP
# include <stdio.h>
# include <string.h>
# include <openssl/safestack.h>
# include <openssl/bn.h>
# include <openssl/crypto.h>

# ifdef  __cplusplus
extern "C" {
# endif

# ifndef OPENSSL_NO_DEPRECATED_3_0

typedef
 struct SRP_gN_cache_st {
   char *b64_bn;
```

```
   BIGNUM *bn;
} SRP_gN_cache;
SKM_DEFINE_STACK_OF_INTERNAL(SRP_gN_cache, SRP_gN_cache, SRP_gN_cache)
#define sk_SRP_gN_cache_num(sk) OPENSSL_sk_num(ossl_check_const_SRP_gN_cache_sk_type(sk))
#define sk_SRP_gN_cache_value(sk, idx) ((SRP_gN_cache
*)OPENSSL_sk_value(ossl_check_const_SRP_gN_cache_sk_type(sk), (idx)))
#define sk_SRP_gN_cache_new(cmp) ((STACK_OF(SRP_gN_cache)
*)OPENSSL_sk_new(ossl_check_SRP_gN_cache_compfunc_type(cmp)))
#define sk_SRP_gN_cache_new_null() ((STACK_OF(SRP_gN_cache) *)OPENSSL_sk_new_null())
#define sk_SRP_gN_cache_new_reserve(cmp, n) ((STACK_OF(SRP_gN_cache)
*)OPENSSL_sk_new_reserve(ossl_check_SRP_gN_cache_compfunc_type(cmp), (n)))
#define sk_SRP_gN_cache_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_SRP_gN_cache_sk_type(sk), (n))
#define sk_SRP_gN_cache_free(sk) OPENSSL_sk_free(ossl_check_SRP_gN_cache_sk_type(sk))
#define sk_SRP_gN_cache_zero(sk) OPENSSL_sk_zero(ossl_check_SRP_gN_cache_sk_type(sk))
#define sk_SRP_gN_cache_delete(sk,
 i) ((SRP_gN_cache *)OPENSSL_sk_delete(ossl_check_SRP_gN_cache_sk_type(sk), (i)))
#define sk_SRP_gN_cache_delete_ptr(sk, ptr) ((SRP_gN_cache
*)OPENSSL_sk_delete_ptr(ossl_check_SRP_gN_cache_sk_type(sk), ossl_check_SRP_gN_cache_type(ptr)))
#define sk_SRP_gN_cache_push(sk, ptr) OPENSSL_sk_push(ossl_check_SRP_gN_cache_sk_type(sk),
ossl_check_SRP_gN_cache_type(ptr))
#define sk_SRP_gN_cache_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_SRP_gN_cache_sk_type(sk),
ossl_check_SRP_gN_cache_type(ptr))
#define sk_SRP_gN_cache_pop(sk) ((SRP_gN_cache
*)OPENSSL_sk_pop(ossl_check_SRP_gN_cache_sk_type(sk)))
#define sk_SRP_gN_cache_shift(sk) ((SRP_gN_cache
*)OPENSSL_sk_shift(ossl_check_SRP_gN_cache_sk_type(sk)))
#define sk_SRP_gN_cache_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_SRP_gN_cache_sk_type(sk),ossl_check_SRP_gN_cache_freefunc_type(freefu
nc))
#define sk_SRP_gN_cache_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_SRP_gN_cache_sk_type(sk),
ossl_check_SRP_gN_cache_type(ptr),
 (idx))
#define sk_SRP_gN_cache_set(sk, idx, ptr) ((SRP_gN_cache
*)OPENSSL_sk_set(ossl_check_SRP_gN_cache_sk_type(sk), (idx), ossl_check_SRP_gN_cache_type(ptr)))
#define sk_SRP_gN_cache_find(sk, ptr) OPENSSL_sk_find(ossl_check_SRP_gN_cache_sk_type(sk),
ossl_check_SRP_gN_cache_type(ptr))
#define sk_SRP_gN_cache_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_SRP_gN_cache_sk_type(sk),
ossl_check_SRP_gN_cache_type(ptr))
#define sk_SRP_gN_cache_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_SRP_gN_cache_sk_type(sk), ossl_check_SRP_gN_cache_type(ptr), pnum)
#define sk_SRP_gN_cache_sort(sk) OPENSSL_sk_sort(ossl_check_SRP_gN_cache_sk_type(sk))
#define sk_SRP_gN_cache_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_SRP_gN_cache_sk_type(sk))
#define sk_SRP_gN_cache_dup(sk) ((STACK_OF(SRP_gN_cache)
*)OPENSSL_sk_dup(ossl_check_const_SRP_gN_cache_sk_type(sk)))
#define sk_SRP_gN_cache_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(SRP_gN_cache)
*)OPENSSL_sk_deep_copy(ossl_check_const_SRP_gN_cache_sk_type(sk),
 ossl_check_SRP_gN_cache_copyfunc_type(copyfunc), ossl_check_SRP_gN_cache_freefunc_type(freefunc)))
#define sk_SRP_gN_cache_set_cmp_func(sk, cmp)
```

```
((sk_SRP_gN_cache_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_SRP_gN_cache_sk_type(sk),
ossl_check_SRP_gN_cache_compfunc_type(cmp)))



typedef struct SRP_user_pwd_st {
  /* Owned by us. */
  char *id;
  BIGNUM *s;
  BIGNUM *v;
  /* Not owned by us. */
  const BIGNUM *g;
  const BIGNUM *N;
  /* Owned by us. */
  char *info;
} SRP_user_pwd;
SKM_DEFINE_STACK_OF_INTERNAL(SRP_user_pwd, SRP_user_pwd, SRP_user_pwd)
#define sk_SRP_user_pwd_num(sk) OPENSSL_sk_num(ossl_check_const_SRP_user_pwd_sk_type(sk))
#define sk_SRP_user_pwd_value(sk, idx) ((SRP_user_pwd
*)OPENSSL_sk_value(ossl_check_const_SRP_user_pwd_sk_type(sk), (idx)))
#define sk_SRP_user_pwd_new(cmp) ((STACK_OF(SRP_user_pwd)
*)OPENSSL_sk_new(ossl_check_SRP_user_pwd_compfunc_type(cmp)))
#define sk_SRP_user_pwd_new_null() ((STACK_OF(SRP_user_pwd)
 *)OPENSSL_sk_new_null())
#define sk_SRP_user_pwd_new_reserve(cmp, n) ((STACK_OF(SRP_user_pwd)
*)OPENSSL_sk_new_reserve(ossl_check_SRP_user_pwd_compfunc_type(cmp), (n)))
#define sk_SRP_user_pwd_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_SRP_user_pwd_sk_type(sk), (n))
#define sk_SRP_user_pwd_free(sk) OPENSSL_sk_free(ossl_check_SRP_user_pwd_sk_type(sk))
#define sk_SRP_user_pwd_zero(sk) OPENSSL_sk_zero(ossl_check_SRP_user_pwd_sk_type(sk))
#define sk_SRP_user_pwd_delete(sk, i) ((SRP_user_pwd
*)OPENSSL_sk_delete(ossl_check_SRP_user_pwd_sk_type(sk), (i)))
#define sk_SRP_user_pwd_delete_ptr(sk, ptr) ((SRP_user_pwd
*)OPENSSL_sk_delete_ptr(ossl_check_SRP_user_pwd_sk_type(sk), ossl_check_SRP_user_pwd_type(ptr)))
#define sk_SRP_user_pwd_push(sk, ptr) OPENSSL_sk_push(ossl_check_SRP_user_pwd_sk_type(sk),
ossl_check_SRP_user_pwd_type(ptr))
#define sk_SRP_user_pwd_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_SRP_user_pwd_sk_type(sk),
ossl_check_SRP_user_pwd_type(ptr))
#define sk_SRP_user_pwd_pop(sk)
 ((SRP_user_pwd *)OPENSSL_sk_pop(ossl_check_SRP_user_pwd_sk_type(sk)))
#define sk_SRP_user_pwd_shift(sk) ((SRP_user_pwd
*)OPENSSL_sk_shift(ossl_check_SRP_user_pwd_sk_type(sk)))
#define sk_SRP_user_pwd_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_SRP_user_pwd_sk_type(sk),ossl_check_SRP_user_pwd_freefunc_type(freefu
nc))
#define sk_SRP_user_pwd_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_SRP_user_pwd_sk_type(sk),
ossl_check_SRP_user_pwd_type(ptr), (idx))
#define sk_SRP_user_pwd_set(sk, idx, ptr) ((SRP_user_pwd
*)OPENSSL_sk_set(ossl_check_SRP_user_pwd_sk_type(sk), (idx), ossl_check_SRP_user_pwd_type(ptr)))
```

```
#define sk_SRP_user_pwd_find(sk, ptr) OPENSSL_sk_find(ossl_check_SRP_user_pwd_sk_type(sk),
ossl_check_SRP_user_pwd_type(ptr))
#define sk_SRP_user_pwd_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_SRP_user_pwd_sk_type(sk),
ossl_check_SRP_user_pwd_type(ptr))
#define sk_SRP_user_pwd_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_SRP_user_pwd_sk_type(sk),
ossl_check_SRP_user_pwd_type(ptr),
 pnum)
#define sk_SRP_user_pwd_sort(sk) OPENSSL_sk_sort(ossl_check_SRP_user_pwd_sk_type(sk))
#define sk_SRP_user_pwd_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_SRP_user_pwd_sk_type(sk))
#define sk_SRP_user_pwd_dup(sk) ((STACK_OF(SRP_user_pwd)
*)OPENSSL_sk_dup(ossl_check_const_SRP_user_pwd_sk_type(sk)))
#define sk_SRP_user_pwd_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(SRP_user_pwd)
*)OPENSSL_sk_deep_copy(ossl_check_const_SRP_user_pwd_sk_type(sk),
ossl_check_SRP_user_pwd_copyfunc_type(copyfunc), ossl_check_SRP_user_pwd_freefunc_type(freefunc)))
#define sk_SRP_user_pwd_set_cmp_func(sk, cmp)
((sk_SRP_user_pwd_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_SRP_user_pwd_sk_type(sk),
ossl_check_SRP_user_pwd_compfunc_type(cmp)))


OSSL_DEPRECATEDIN_3_0
SRP_user_pwd *SRP_user_pwd_new(void);
OSSL_DEPRECATEDIN_3_0
void SRP_user_pwd_free(SRP_user_pwd *user_pwd);

OSSL_DEPRECATEDIN_3_0
void SRP_user_pwd_set_gN(SRP_user_pwd *user_pwd, const BIGNUM *g,

         const BIGNUM *N);
OSSL_DEPRECATEDIN_3_0
int SRP_user_pwd_set1_ids(SRP_user_pwd *user_pwd, const char *id,
                    const char *info);
OSSL_DEPRECATEDIN_3_0
int SRP_user_pwd_set0_sv(SRP_user_pwd *user_pwd, BIGNUM *s, BIGNUM *v);

typedef struct SRP_VBASE_st {
  STACK_OF(SRP_user_pwd) *users_pwd;
  STACK_OF(SRP_gN_cache) *gN_cache;
/* to simulate a user */
  char *seed_key;
  const BIGNUM *default_g;
  const BIGNUM *default_N;
} SRP_VBASE;

/*
* Internal structure storing N and g pair
*/
typedef struct SRP_gN_st {
  char *id;
```

```
  const BIGNUM *g;
  const BIGNUM *N;
} SRP_gN;
SKM_DEFINE_STACK_OF_INTERNAL(SRP_gN, SRP_gN, SRP_gN)
#define sk_SRP_gN_num(sk) OPENSSL_sk_num(ossl_check_const_SRP_gN_sk_type(sk))
#define sk_SRP_gN_value(sk, idx) ((SRP_gN *)OPENSSL_sk_value(ossl_check_const_SRP_gN_sk_type(sk),
(idx)))
#define sk_SRP_gN_new(cmp) ((STACK_OF(SRP_gN)
*)OPENSSL_sk_new(ossl_check_SRP_gN_compfunc_type(cmp)))
#define sk_SRP_gN_new_null() ((STACK_OF(SRP_gN)
 *)OPENSSL_sk_new_null())
#define sk_SRP_gN_new_reserve(cmp, n) ((STACK_OF(SRP_gN)
*)OPENSSL_sk_new_reserve(ossl_check_SRP_gN_compfunc_type(cmp), (n)))
#define sk_SRP_gN_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_SRP_gN_sk_type(sk), (n))
#define sk_SRP_gN_free(sk) OPENSSL_sk_free(ossl_check_SRP_gN_sk_type(sk))
#define sk_SRP_gN_zero(sk) OPENSSL_sk_zero(ossl_check_SRP_gN_sk_type(sk))
#define sk_SRP_gN_delete(sk, i) ((SRP_gN *)OPENSSL_sk_delete(ossl_check_SRP_gN_sk_type(sk), (i)))
#define sk_SRP_gN_delete_ptr(sk, ptr) ((SRP_gN *)OPENSSL_sk_delete_ptr(ossl_check_SRP_gN_sk_type(sk),
ossl_check_SRP_gN_type(ptr)))
#define sk_SRP_gN_push(sk, ptr) OPENSSL_sk_push(ossl_check_SRP_gN_sk_type(sk),
ossl_check_SRP_gN_type(ptr))
#define sk_SRP_gN_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_SRP_gN_sk_type(sk),
ossl_check_SRP_gN_type(ptr))
#define sk_SRP_gN_pop(sk) ((SRP_gN *)OPENSSL_sk_pop(ossl_check_SRP_gN_sk_type(sk)))
#define sk_SRP_gN_shift(sk) ((SRP_gN *)OPENSSL_sk_shift(ossl_check_SRP_gN_sk_type(sk)))
#define
 sk_SRP_gN_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_SRP_gN_sk_type(sk),ossl_check_SRP_gN_freefunc_type(freefunc))
#define sk_SRP_gN_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_SRP_gN_sk_type(sk),
ossl_check_SRP_gN_type(ptr), (idx))
#define sk_SRP_gN_set(sk, idx, ptr) ((SRP_gN *)OPENSSL_sk_set(ossl_check_SRP_gN_sk_type(sk), (idx),
ossl_check_SRP_gN_type(ptr)))
#define sk_SRP_gN_find(sk, ptr) OPENSSL_sk_find(ossl_check_SRP_gN_sk_type(sk),
ossl_check_SRP_gN_type(ptr))
#define sk_SRP_gN_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_SRP_gN_sk_type(sk),
ossl_check_SRP_gN_type(ptr))
#define sk_SRP_gN_find_all(sk, ptr, pnum) OPENSSL_sk_find_all(ossl_check_SRP_gN_sk_type(sk),
ossl_check_SRP_gN_type(ptr), pnum)
#define sk_SRP_gN_sort(sk) OPENSSL_sk_sort(ossl_check_SRP_gN_sk_type(sk))
#define sk_SRP_gN_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_SRP_gN_sk_type(sk))
#define sk_SRP_gN_dup(sk) ((STACK_OF(SRP_gN)
*)OPENSSL_sk_dup(ossl_check_const_SRP_gN_sk_type(sk)))
#define
 sk_SRP_gN_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(SRP_gN)
*)OPENSSL_sk_deep_copy(ossl_check_const_SRP_gN_sk_type(sk),
ossl_check_SRP_gN_copyfunc_type(copyfunc), ossl_check_SRP_gN_freefunc_type(freefunc)))
#define sk_SRP_gN_set_cmp_func(sk, cmp)
((sk_SRP_gN_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_SRP_gN_sk_type(sk),
```

```
ossl_check_SRP_gN_compfunc_type(cmp)))



OSSL_DEPRECATEDIN_3_0
SRP_VBASE *SRP_VBASE_new(char *seed_key);
OSSL_DEPRECATEDIN_3_0
void SRP_VBASE_free(SRP_VBASE *vb);
OSSL_DEPRECATEDIN_3_0
int SRP_VBASE_init(SRP_VBASE *vb, char *verifier_file);

OSSL_DEPRECATEDIN_3_0
int SRP_VBASE_add0_user(SRP_VBASE *vb, SRP_user_pwd *user_pwd);

/* NOTE: unlike in SRP_VBASE_get_by_user, caller owns the returned pointer.*/
OSSL_DEPRECATEDIN_3_0
SRP_user_pwd *SRP_VBASE_get1_by_user(SRP_VBASE *vb, char *username);

OSSL_DEPRECATEDIN_3_0
char *SRP_create_verifier_ex(const char *user, const char *pass, char **salt,
                     char **verifier,
 const char *N, const char *g,
                     OSSL_LIB_CTX *libctx, const char *propq);
OSSL_DEPRECATEDIN_3_0
char *SRP_create_verifier(const char *user, const char *pass, char **salt,
                    char **verifier, const char *N, const char *g);
OSSL_DEPRECATEDIN_3_0
int SRP_create_verifier_BN_ex(const char *user, const char *pass, BIGNUM **salt,
                      BIGNUM **verifier, const BIGNUM *N,
                      const BIGNUM *g, OSSL_LIB_CTX *libctx,
                      const char *propq);
OSSL_DEPRECATEDIN_3_0
int SRP_create_verifier_BN(const char *user, const char *pass, BIGNUM **salt,
                    BIGNUM **verifier, const BIGNUM *N,
                    const BIGNUM *g);

#  define SRP_NO_ERROR 0
#  define SRP_ERR_VBASE_INCOMPLETE_FILE 1
#  define SRP_ERR_VBASE_BN_LIB 2
#  define SRP_ERR_OPEN_FILE 3
#  define SRP_ERR_MEMORY 4

#  define DB_srptype      0
#  define DB_srpverifier  1
#  define DB_srpsalt
     2
#  define DB_srpid        3
#  define DB_srpgN        4
```

```
#  define DB_srpinfo      5
#  undef  DB_NUMBER
#  define DB_NUMBER       6

#  define DB_SRP_INDEX    'I'
#  define DB_SRP_VALID    'V'
#  define DB_SRP_REVOKED  'R'
#  define DB_SRP_MODIF    'v'

/* see srp.c */
OSSL_DEPRECATEDIN_3_0
char *SRP_check_known_gN_param(const BIGNUM *g, const BIGNUM *N);
OSSL_DEPRECATEDIN_3_0
SRP_gN *SRP_get_default_gN(const char *id);

/* server side .... */
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_server_key(const BIGNUM *A, const BIGNUM *v, const BIGNUM *u,
                    const BIGNUM *b, const BIGNUM *N);
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_B_ex(const BIGNUM *b, const BIGNUM *N, const BIGNUM *g,
                 const BIGNUM *v, OSSL_LIB_CTX *libctx, const char *propq);
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_B(const BIGNUM *b, const BIGNUM *N, const BIGNUM *g,
                const BIGNUM *v);

OSSL_DEPRECATEDIN_3_0
int SRP_Verify_A_mod_N(const BIGNUM *A, const
 BIGNUM *N);
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_u_ex(const BIGNUM *A, const BIGNUM *B, const BIGNUM *N,
                 OSSL_LIB_CTX *libctx, const char *propq);
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_u(const BIGNUM *A, const BIGNUM *B, const BIGNUM *N);

/* client side .... */

OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_x_ex(const BIGNUM *s, const char *user, const char *pass,
                 OSSL_LIB_CTX *libctx, const char *propq);
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_x(const BIGNUM *s, const char *user, const char *pass);
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_A(const BIGNUM *a, const BIGNUM *N, const BIGNUM *g);
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_client_key_ex(const BIGNUM *N, const BIGNUM *B, const BIGNUM *g,
                    const BIGNUM *x, const BIGNUM *a, const BIGNUM *u,
                    OSSL_LIB_CTX *libctx, const char *propq);
```

```
OSSL_DEPRECATEDIN_3_0
BIGNUM *SRP_Calc_client_key(const BIGNUM *N, const BIGNUM *B, const BIGNUM *g,

                const BIGNUM *x, const BIGNUM *a, const BIGNUM *u);
OSSL_DEPRECATEDIN_3_0
int SRP_Verify_B_mod_N(const BIGNUM *B, const BIGNUM *N);

#  define SRP_MINIMAL_N 1024

# endif /* OPENSSL_NO_DEPRECATED_3_0 */

/* This method ignores the configured seed and fails for an unknown user. */
# ifndef OPENSSL_NO_DEPRECATED_1_1_0
OSSL_DEPRECATEDIN_1_1_0
SRP_user_pwd *SRP_VBASE_get_by_user(SRP_VBASE *vb, char *username);
# endif

# ifdef  __cplusplus
}
# endif
# endif

#endif
```

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```
{
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   'openssl_sources': [
     'openssl/crypto/aes/aes_cbc.c',
     'openssl/crypto/aes/aes_core.c',
     'openssl/crypto/aes/aes_ecb.c',
     'openssl/crypto/aes/aes_misc.c',
     'openssl/crypto/bn/bn_add.c',
     'openssl/crypto/bn/bn_asm.c',
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'openssl/crypto/dsa/dsa_sign.c',
'openssl/crypto/dsa/dsa_vrf.c',
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'openssl/crypto/ec/curve448/eddsa.c',
'openssl/crypto/ec/curve448/f_generic.c',
'openssl/crypto/ec/curve448/scalar.c',
'openssl/crypto/ec/curve25519.c',
'openssl/crypto/ec/ec2_oct.c',
'openssl/crypto/ec/ec2_smpl.c',
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'openssl/crypto/ec/ec_backend.c',
'openssl/crypto/ec/ec_check.c',
'openssl/crypto/ec/ec_curve.c',
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'openssl/crypto/ec/ecdh_kdf.c',
'openssl/crypto/ec/ecdh_ossl.c',
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'openssl/crypto/ec/ecdsa_sign.c',
'openssl/crypto/ec/ecdsa_vrf.c',
'openssl/crypto/ec/ecp_mont.c',
'openssl/crypto/ec/ecp_nist.c',
'openssl/crypto/ec/ecp_oct.c',
'openssl/crypto/ec/ecp_smpl.c',
'openssl/crypto/ec/ecx_backend.c',
'openssl/crypto/ec/ecx_key.c',
'openssl/crypto/evp/asymcipher.c',
'openssl/crypto/evp/dh_support.c',
'openssl/crypto/evp/digest.c',
'openssl/crypto/evp/ec_support.c',
'openssl/crypto/evp/evp_enc.c',
'openssl/crypto/evp/evp_fetch.c',
'openssl/crypto/evp/evp_lib.c',
'openssl/crypto/evp/evp_rand.c',
'openssl/crypto/evp/evp_utils.c',
'openssl/crypto/evp/exchange.c',
'openssl/crypto/evp/kdf_lib.c',
'openssl/crypto/evp/kdf_meth.c',
'openssl/crypto/evp/kem.c',
'openssl/crypto/evp/keymgmt_lib.c',
'openssl/crypto/evp/keymgmt_meth.c',
'openssl/crypto/evp/m_sigver.c',
'openssl/crypto/evp/mac_lib.c',
'openssl/crypto/evp/mac_meth.c',
'openssl/crypto/evp/p_lib.c',
'openssl/crypto/evp/pmeth_check.c',
'openssl/crypto/evp/pmeth_gn.c',
'openssl/crypto/evp/pmeth_lib.c',
'openssl/crypto/evp/signature.c',
'openssl/crypto/ffc/ffc_backend.c',
'openssl/crypto/ffc/ffc_dh.c',
'openssl/crypto/ffc/ffc_key_generate.c',
'openssl/crypto/ffc/ffc_key_validate.c',
'openssl/crypto/ffc/ffc_params.c',
'openssl/crypto/ffc/ffc_params_generate.c',
'openssl/crypto/ffc/ffc_params_validate.c',
'openssl/crypto/hmac/hmac.c',
'openssl/crypto/lhash/lhash.c',
'openssl/crypto/asn1_dsa.c',
'openssl/crypto/bsearch.c',
'openssl/crypto/context.c',
'openssl/crypto/core_algorithm.c',
'openssl/crypto/core_fetch.c',
'openssl/crypto/core_namemap.c',
'openssl/crypto/cpuid.c',
'openssl/crypto/cryptlib.c',

'openssl/crypto/ctype.c',
'openssl/crypto/der_writer.c',
'openssl/crypto/ex_data.c',
'openssl/crypto/initthread.c',
'openssl/crypto/mem_clr.c',
'openssl/crypto/o_str.c',
'openssl/crypto/packet.c',
'openssl/crypto/param_build.c',
'openssl/crypto/param_build_set.c',
'openssl/crypto/params.c',
'openssl/crypto/params_dup.c',
'openssl/crypto/params_from_text.c',
'openssl/crypto/provider_core.c',
'openssl/crypto/provider_predefined.c',
'openssl/crypto/self_test_core.c',
'openssl/crypto/sparse_array.c',
'openssl/crypto/threads_lib.c',
'openssl/crypto/threads_none.c',
'openssl/crypto/threads_pthread.c',
'openssl/crypto/threads_win.c',
'openssl/crypto/modes/cbc128.c',
'openssl/crypto/modes/ccm128.c',
'openssl/crypto/modes/cfb128.c',
'openssl/crypto/modes/ctr128.c',
'openssl/crypto/modes/gcm128.c',
'openssl/crypto/modes/ofb128.c',
'openssl/crypto/modes/wrap128.c',
'openssl/crypto/modes/xts128.c',
'openssl/crypto/property/defn_cache.c',

'openssl/crypto/property/property.c',
'openssl/crypto/property/property_parse.c',
'openssl/crypto/property/property_query.c',
'openssl/crypto/property/property_string.c',
'openssl/crypto/rand/rand_lib.c',
'openssl/crypto/rsa/rsa_acvp_test_params.c',
'openssl/crypto/rsa/rsa_backend.c',
'openssl/crypto/rsa/rsa_chk.c',
'openssl/crypto/rsa/rsa_crpt.c',
'openssl/crypto/rsa/rsa_gen.c',
'openssl/crypto/rsa/rsa_lib.c',
'openssl/crypto/rsa/rsa_mp_names.c',
'openssl/crypto/rsa/rsa_none.c',
'openssl/crypto/rsa/rsa_oaep.c',
'openssl/crypto/rsa/rsa_ossl.c',
'openssl/crypto/rsa/rsa_pk1.c',
'openssl/crypto/rsa/rsa_pss.c',
'openssl/crypto/rsa/rsa_schemes.c',

'openssl/crypto/rsa/rsa_sign.c',
'openssl/crypto/rsa/rsa_sp800_56b_check.c',
'openssl/crypto/rsa/rsa_sp800_56b_gen.c',
'openssl/crypto/rsa/rsa_x931.c',
'openssl/crypto/sha/keccak1600.c',
'openssl/crypto/sha/sha1dgst.c',
'openssl/crypto/sha/sha256.c',
'openssl/crypto/sha/sha3.c',
'openssl/crypto/sha/sha512.c',
'openssl/crypto/stack/stack.c',
'openssl/providers/common/der/der_rsa_sig.c',
'openssl/providers/common/bio_prov.c',
'openssl/providers/common/capabilities.c',
'openssl/providers/common/digest_to_nid.c',
'openssl/providers/common/provider_seeding.c',
'openssl/providers/common/provider_util.c',
'openssl/providers/common/securitycheck.c',
'openssl/providers/common/securitycheck_fips.c',
'openssl/providers/fips/fipsprov.c',
'openssl/providers/fips/self_test.c',
'openssl/providers/fips/self_test_kats.c',
'openssl/providers/implementations/asymciphers/rsa_enc.c',
'openssl/providers/implementations/ciphers/cipher_aes.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha1_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_cbc_hmac_sha256_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_ccm.c',
'openssl/providers/implementations/ciphers/cipher_aes_ccm_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_gcm.c',
'openssl/providers/implementations/ciphers/cipher_aes_gcm_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_ocb.c',
'openssl/providers/implementations/ciphers/cipher_aes_ocb_hw.c',
'openssl/providers/implementations/ciphers/cipher_aes_wrp.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts_fips.c',
'openssl/providers/implementations/ciphers/cipher_aes_xts_hw.c',
'openssl/providers/implementations/ciphers/cipher_cts.c',
'openssl/providers/implementations/ciphers/cipher_tdes.c',
'openssl/providers/implementations/ciphers/cipher_tdes_common.c',
'openssl/providers/implementations/ciphers/cipher_tdes_hw.c',
'openssl/providers/implementations/digests/sha2_prov.c',
'openssl/providers/implementations/digests/sha3_prov.c',
'openssl/providers/implementations/exchange/dh_exch.c',
'openssl/providers/implementations/exchange/ecdh_exch.c',
'openssl/providers/implementations/exchange/ecx_exch.c',
'openssl/providers/implementations/exchange/kdf_exch.c',
'openssl/providers/implementations/kdfs/hkdf.c',

'openssl/providers/implementations/kdfs/kbkdf.c',
'openssl/providers/implementations/kdfs/pbkdf2.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
'openssl/providers/implementations/kdfs/tls1_prf.c',
'openssl/providers/implementations/kdfs/x942kdf.c',
'openssl/providers/implementations/kem/rsa_kem.c',

'openssl/providers/implementations/keymgmt/dh_kmgmt.c',
'openssl/providers/implementations/keymgmt/dsa_kmgmt.c',
'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',
'openssl/providers/implementations/keymgmt/kdf_legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/mac_legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/rsa_kmgmt.c',
'openssl/providers/implementations/macs/cmac_prov.c',
'openssl/providers/implementations/macs/gmac_prov.c',
'openssl/providers/implementations/macs/hmac_prov.c',
'openssl/providers/implementations/macs/kmac_prov.c',
'openssl/providers/implementations/rands/crngt.c',
'openssl/providers/implementations/rands/drbg.c',
'openssl/providers/implementations/rands/drbg_ctr.c',
'openssl/providers/implementations/rands/drbg_hash.c',
'openssl/providers/implementations/rands/drbg_hmac.c',
'openssl/providers/implementations/rands/test_rng.c',
'openssl/providers/implementations/signature/dsa_sig.c',
'openssl/providers/implementations/signature/ecdsa_sig.c',
'openssl/providers/implementations/signature/eddsa_sig.c',
'openssl/providers/implementations/signature/mac_legacy_sig.c',
'openssl/providers/implementations/signature/rsa_sig.c',
'openssl/ssl/s3_cbc.c',
'openssl/providers/common/der/der_dsa_key.c',
'openssl/providers/common/der/der_dsa_sig.c',
'openssl/providers/common/der/der_ec_key.c',
'openssl/providers/common/der/der_ec_sig.c',
'openssl/providers/common/der/der_ecx_key.c',
'openssl/providers/common/der/der_rsa_key.c',
'openssl/providers/common/provider_ctx.c',
'openssl/providers/common/provider_err.c',
'openssl/providers/implementations/ciphers/ciphercommon.c',
'openssl/providers/implementations/ciphers/ciphercommon_block.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
'openssl/providers/implementations/digests/digestcommon.c',

```
    'openssl/ssl/record/tls_pad.c',
    'openssl/providers/fips/fips_entry.c',

  ],
  'openssl_sources_BSD-x86_64': [
    './config/archs/BSD-x86_64/no-asm/providers/common/der/der_sm2_gen.c',
    './config/archs/BSD-x86_64/no-asm/providers/common/der/der_digests_gen.c',
    './config/archs/BSD-x86_64/no-asm/providers/common/der/der_dsa_gen.c',
    './config/archs/BSD-x86_64/no-asm/providers/common/der/der_ec_gen.c',
    './config/archs/BSD-x86_64/no-asm/providers/common/der/der_ecx_gen.c',
    './config/archs/BSD-x86_64/no-asm/providers/common/der/der_rsa_gen.c',
    './config/archs/BSD-x86_64/no-asm/providers/common/der/der_wrap_gen.c',
     './config/archs/BSD-x86_64/no-asm/providers/legacy.ld',
    './config/archs/BSD-x86_64/no-asm/providers/fips.ld',

  ],
  'openssl_defines_BSD-x86_64': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'FIPS_MODULE',
    'FIPS_MODULE',
  ],
  'openssl_cflags_BSD-x86_64': [
    '-Wall -O3',
    '-pthread',
    '-Wall -O3',
  ],
  'openssl_ex_libs_BSD-x86_64': [
    '-pthread',
  ],
  'linker_script': ''
},
'include_dirs': [
  '.',
  './include',
  './crypto',
  './crypto/include/internal',
  './providers/common/include',
],
'defines': ['<@(openssl_defines_BSD-x86_64)'],
'cflags': ['<@(openssl_cflags_BSD-x86_64)'],
'libraries': ['<@(openssl_ex_libs_BSD-x86_64)'],

'sources': ['<@(openssl_sources)', '<@(openssl_sources_BSD-x86_64)'],
'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86_64)'],
```

```
 },
}
/*
* WARNING: do not edit!
* Generated by configdata.pm from Configurations/common0.tmpl, Configurations/unix-Makefile.tmpl
* via Makefile.in
*
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*/

#ifndef OPENSSL_CONFIGURATION_H
# define OPENSSL_CONFIGURATION_H
# pragma once

# ifdef  __cplusplus
extern "C" {
# endif

# ifdef OPENSSL_ALGORITHM_DEFINES
#  error OPENSSL_ALGORITHM_DEFINES no longer supported
# endif

/*
* OpenSSL was configured with the following options:
*/

# define OPENSSL_CONFIGURED_API 30000
# ifndef OPENSSL_RAND_SEED_OS
#  define OPENSSL_RAND_SEED_OS
# endif
# ifndef OPENSSL_THREADS
#  define OPENSSL_THREADS
# endif
# ifndef OPENSSL_NO_AFALGENG
#  define OPENSSL_NO_AFALGENG
# endif
# ifndef
 OPENSSL_NO_ASAN
#  define OPENSSL_NO_ASAN
# endif
# ifndef OPENSSL_NO_ASM
#  define OPENSSL_NO_ASM
# endif
```

```
# ifndef OPENSSL_NO_COMP
#  define OPENSSL_NO_COMP
# endif
# ifndef OPENSSL_NO_CRYPTO_MDEBUG
#  define OPENSSL_NO_CRYPTO_MDEBUG
# endif
# ifndef OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
#  define OPENSSL_NO_CRYPTO_MDEBUG_BACKTRACE
# endif
# ifndef OPENSSL_NO_EC_NISTP_64_GCC_128
#  define OPENSSL_NO_EC_NISTP_64_GCC_128
# endif
# ifndef OPENSSL_NO_EGD
#  define OPENSSL_NO_EGD
# endif
# ifndef OPENSSL_NO_EXTERNAL_TESTS
#  define OPENSSL_NO_EXTERNAL_TESTS
# endif
# ifndef OPENSSL_NO_FUZZ_AFL
#  define OPENSSL_NO_FUZZ_AFL
# endif
# ifndef OPENSSL_NO_FUZZ_LIBFUZZER
#  define OPENSSL_NO_FUZZ_LIBFUZZER
# endif
# ifndef OPENSSL_NO_KTLS
#  define OPENSSL_NO_KTLS
# endif
# ifndef OPENSSL_NO_LOADERENG
#  define OPENSSL_NO_LOADERENG
# endif
# ifndef OPENSSL_NO_MD2
#  define OPENSSL_NO_MD2
# endif
# ifndef OPENSSL_NO_MSAN
#  define OPENSSL_NO_MSAN
# endif
# ifndef OPENSSL_NO_RC5
#  define OPENSSL_NO_RC5
#
 endif
# ifndef OPENSSL_NO_SCTP
#  define OPENSSL_NO_SCTP
# endif
# ifndef OPENSSL_NO_SSL3
#  define OPENSSL_NO_SSL3
# endif
# ifndef OPENSSL_NO_SSL3_METHOD
#  define OPENSSL_NO_SSL3_METHOD
```

```
# endif
# ifndef OPENSSL_NO_TRACE
#  define OPENSSL_NO_TRACE
# endif
# ifndef OPENSSL_NO_UBSAN
#  define OPENSSL_NO_UBSAN
# endif
# ifndef OPENSSL_NO_UNIT_TEST
#  define OPENSSL_NO_UNIT_TEST
# endif
# ifndef OPENSSL_NO_UPLINK
#  define OPENSSL_NO_UPLINK
# endif
# ifndef OPENSSL_NO_WEAK_SSL_CIPHERS
#  define OPENSSL_NO_WEAK_SSL_CIPHERS
# endif
# ifndef OPENSSL_NO_DYNAMIC_ENGINE
#  define OPENSSL_NO_DYNAMIC_ENGINE
# endif


/* Generate 80386 code? */
# undef I386_ONLY

/*
* The following are cipher-specific, but are part of the public API.
*/
# if !defined(OPENSSL_SYS_UEFI)
#  define BN_LLONG
/* Only one for the following should be defined */
#  undef SIXTY_FOUR_BIT_LONG
#  undef SIXTY_FOUR_BIT
#  define THIRTY_TWO_BIT
# endif

# define RC4_INT unsigned int

# ifdef  __cplusplus
}
# endif

#endif
                    /* OPENSSL_CONFIGURATION_H */
```

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```
#ifndef SRC_PERMISSION_INSPECTOR_PERMISSION_H_
#define SRC_PERMISSION_INSPECTOR_PERMISSION_H_

#if defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS

#include <string>
#include "permission/permission_base.h"

namespace node {

namespace permission {

class InspectorPermission final : public PermissionBase {
public:
 void Apply(Environment* env,
```

```
        const std::vector<std::string>& allow,
        PermissionScope scope) override;
 bool is_granted(Environment* env,
             PermissionScope perm,
             const std::string_view& param = "") const override;

private:
 bool deny_all_;
};

}  // namespace permission

}  // namespace node

#endif  // defined(NODE_WANT_INTERNALS) && NODE_WANT_INTERNALS
#endif  // SRC_PERMISSION_INSPECTOR_PERMISSION_H_
```

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==========

```
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/asn1t.h.in
*
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*/



#ifndef OPENSSL_ASN1T_H
# define OPENSSL_ASN1T_H
# pragma once

# include <openssl/macros.h>
# ifndef OPENSSL_NO_DEPRECATED_3_0
#  define HEADER_ASN1T_H
# endif

# include <stddef.h>
# include <openssl/e_os2.h>
# include <openssl/asn1.h>
```

```
# ifdef OPENSSL_BUILD_SHLIBCRYPTO
#  undef OPENSSL_EXTERN
#  define OPENSSL_EXTERN OPENSSL_EXPORT
# endif

/* ASN1 template defines, structures and functions */

#ifdef  __cplusplus
extern "C" {
#endif

/*-
* These are the possible values for the itype field of the
* ASN1_ITEM structure and determine how it is interpreted.
*
* For PRIMITIVE
 types the underlying type
* determines the behaviour if items is NULL.
*
* Otherwise templates must contain a single
* template and the type is treated in the
* same way as the type specified in the template.
*
* For SEQUENCE types the templates field points
* to the members, the size field is the
* structure size.
*
* For CHOICE types the templates field points
* to each possible member (typically a union)
* and the 'size' field is the offset of the
* selector.
*
* The 'funcs' field is used for application-specific
* data and functions.
*
* The EXTERN type uses a new style d2i/i2d.
* The new style should be used where possible
* because it avoids things like the d2i IMPLICIT
* hack.
*
* MSTRING is a multiple string type, it is used
* for a CHOICE of character strings where the
* actual strings all occupy an ASN1_STRING
* structure. In this case the 'utype' field
* has a special meaning, it is used as a mask
* of acceptable types using the B_ASN1 constants.
 *
* NDEF_SEQUENCE is the same as SEQUENCE except
```

```
* that it will use indefinite length constructed
* encoding if requested.
*
*/

# define ASN1_ITYPE_PRIMITIVE           0x0
# define ASN1_ITYPE_SEQUENCE            0x1
# define ASN1_ITYPE_CHOICE              0x2
/* unused value                       0x3 */
# define ASN1_ITYPE_EXTERN              0x4
# define ASN1_ITYPE_MSTRING             0x5
# define ASN1_ITYPE_NDEF_SEQUENCE       0x6

/* Macro to obtain ASN1_ADB pointer from a type (only used internally) */
# define ASN1_ADB_ptr(iptr) ((const ASN1_ADB *)((iptr)()))

/* Macros for start and end of ASN1_ITEM definition */

# define ASN1_ITEM_start(itname) \
	const ASN1_ITEM * itname##_it(void) \
	{ \
		static const ASN1_ITEM local_it = {

# define static_ASN1_ITEM_start(itname) \
	static ASN1_ITEM_start(itname)

# define ASN1_ITEM_end(itname) \
		}; \
	return &local_it; \
	}

/* Macros to aid ASN1 template
 writing */

# define ASN1_ITEM_TEMPLATE(tname) \
	static const ASN1_TEMPLATE tname##_item_tt

# define ASN1_ITEM_TEMPLATE_END(tname) \
	;\
	ASN1_ITEM_start(tname) \
		ASN1_ITYPE_PRIMITIVE,\
		-1,\
		&tname##_item_tt,\
		0,\
		NULL,\
		0,\
		#tname \
	ASN1_ITEM_end(tname)
```

```
# define static_ASN1_ITEM_TEMPLATE_END(tname) \
	;\
	static_ASN1_ITEM_start(tname) \
		ASN1_ITYPE_PRIMITIVE,\
		-1,\
		&tname##_item_tt,\
		0,\
		NULL,\
		0,\
		#tname \
	ASN1_ITEM_end(tname)

/* This is a ASN1 type which just embeds a template */

/*-
* This pair helps declare a SEQUENCE. We can do:
*
*	ASN1_SEQUENCE(stname) = {
*		... SEQUENCE components ...
*	} ASN1_SEQUENCE_END(stname)
*
*	This will produce an ASN1_ITEM called stname_it
 *	 for a structure called stname.
*
*	If you want the same structure but a different
*	name then use:
*
*	ASN1_SEQUENCE(itname) = {
*		... SEQUENCE components ...
*	} ASN1_SEQUENCE_END_name(stname, itname)
*
*	This will create an item called itname_it using
*	a structure called stname.
*/

# define ASN1_SEQUENCE(tname) \
	static const ASN1_TEMPLATE tname##_seq_tt[]

# define ASN1_SEQUENCE_END(stname) ASN1_SEQUENCE_END_name(stname, stname)

# define static_ASN1_SEQUENCE_END(stname) static_ASN1_SEQUENCE_END_name(stname, stname)

# define ASN1_SEQUENCE_END_name(stname, tname) \
	;\
	ASN1_ITEM_start(tname) \
		ASN1_ITYPE_SEQUENCE,\
		V_ASN1_SEQUENCE,\
		tname##_seq_tt,\
```

```
            sizeof(tname##_seq_tt) / sizeof(ASN1_TEMPLATE),\
            NULL,\
            sizeof(stname),\
            #tname \
      ASN1_ITEM_end(tname)

# define static_ASN1_SEQUENCE_END_name(stname,
 tname) \
      ;\
      static_ASN1_ITEM_start(tname) \
            ASN1_ITYPE_SEQUENCE,\
            V_ASN1_SEQUENCE,\
            tname##_seq_tt,\
            sizeof(tname##_seq_tt) / sizeof(ASN1_TEMPLATE),\
            NULL,\
            sizeof(stname),\
            #stname \
      ASN1_ITEM_end(tname)

# define ASN1_NDEF_SEQUENCE(tname) \
      ASN1_SEQUENCE(tname)

# define ASN1_NDEF_SEQUENCE_cb(tname, cb) \
      ASN1_SEQUENCE_cb(tname, cb)

# define ASN1_SEQUENCE_cb(tname, cb) \
      static const ASN1_AUX tname##_aux = {NULL, 0, 0, 0, cb, 0, NULL}; \
      ASN1_SEQUENCE(tname)

# define ASN1_SEQUENCE_const_cb(tname, const_cb) \
      static const ASN1_AUX tname##_aux = \
         {NULL, ASN1_AFLG_CONST_CB, 0, 0, NULL, 0, const_cb}; \
      ASN1_SEQUENCE(tname)

# define ASN1_SEQUENCE_cb_const_cb(tname, cb, const_cb) \
      static const ASN1_AUX tname##_aux = \
         {NULL, ASN1_AFLG_CONST_CB, 0, 0, cb,
 0, const_cb}; \
      ASN1_SEQUENCE(tname)

# define ASN1_SEQUENCE_ref(tname, cb) \
      static const ASN1_AUX tname##_aux = {NULL, ASN1_AFLG_REFCOUNT, offsetof(tname, references),
offsetof(tname, lock), cb, 0, NULL}; \
      ASN1_SEQUENCE(tname)

# define ASN1_SEQUENCE_enc(tname, enc, cb) \
      static const ASN1_AUX tname##_aux = {NULL, ASN1_AFLG_ENCODING, 0, 0, cb, offsetof(tname, enc),
NULL}; \
```

```
    ASN1_SEQUENCE(tname)

# define ASN1_NDEF_SEQUENCE_END(tname) \
    ;\
    ASN1_ITEM_start(tname) \
        ASN1_ITYPE_NDEF_SEQUENCE,\
        V_ASN1_SEQUENCE,\
        tname##_seq_tt,\
        sizeof(tname##_seq_tt) / sizeof(ASN1_TEMPLATE),\
        NULL,\
        sizeof(tname),\
        #tname \
    ASN1_ITEM_end(tname)
# define static_ASN1_NDEF_SEQUENCE_END(tname) \
    ;\
    static_ASN1_ITEM_start(tname) \
        ASN1_ITYPE_NDEF_SEQUENCE,\
        V_ASN1_SEQUENCE,\

    tname##_seq_tt,\
        sizeof(tname##_seq_tt) / sizeof(ASN1_TEMPLATE),\
        NULL,\
        sizeof(tname),\
        #tname \
    ASN1_ITEM_end(tname)


# define ASN1_SEQUENCE_END_enc(stname, tname) ASN1_SEQUENCE_END_ref(stname, tname)

# define ASN1_SEQUENCE_END_cb(stname, tname) ASN1_SEQUENCE_END_ref(stname, tname)
# define static_ASN1_SEQUENCE_END_cb(stname, tname) static_ASN1_SEQUENCE_END_ref(stname, tname)

# define ASN1_SEQUENCE_END_ref(stname, tname) \
    ;\
    ASN1_ITEM_start(tname) \
        ASN1_ITYPE_SEQUENCE,\
        V_ASN1_SEQUENCE,\
        tname##_seq_tt,\
        sizeof(tname##_seq_tt) / sizeof(ASN1_TEMPLATE),\
        &tname##_aux,\
        sizeof(stname),\
        #tname \
    ASN1_ITEM_end(tname)
# define static_ASN1_SEQUENCE_END_ref(stname, tname) \
    ;\
    static_ASN1_ITEM_start(tname) \
        ASN1_ITYPE_SEQUENCE,\
```

```
  V_ASN1_SEQUENCE,\
            tname##_seq_tt,\
            sizeof(tname##_seq_tt) / sizeof(ASN1_TEMPLATE),\
            &tname##_aux,\
            sizeof(stname),\
            #stname \
      ASN1_ITEM_end(tname)

# define ASN1_NDEF_SEQUENCE_END_cb(stname, tname) \
      ;\
      ASN1_ITEM_start(tname) \
            ASN1_ITYPE_NDEF_SEQUENCE,\
            V_ASN1_SEQUENCE,\
            tname##_seq_tt,\
            sizeof(tname##_seq_tt) / sizeof(ASN1_TEMPLATE),\
            &tname##_aux,\
            sizeof(stname),\
            #stname \
      ASN1_ITEM_end(tname)

/*-
* This pair helps declare a CHOICE type. We can do:
*
*     ASN1_CHOICE(chname) = {
*           ... CHOICE options ...
*     ASN1_CHOICE_END(chname)
*
*     This will produce an ASN1_ITEM called chname_it
*     for a structure called chname. The structure
*     definition must look like this:
*     typedef struct {
*           int type;
*
         union {
*                 ASN1_SOMETHING *opt1;
*                 ASN1_SOMEOTHER *opt2;
*           } value;
*     } chname;
*
*     the name of the selector must be 'type'.
*     to use an alternative selector name use the
*     ASN1_CHOICE_END_selector() version.
*/

# define ASN1_CHOICE(tname) \
      static const ASN1_TEMPLATE tname##_ch_tt[]

# define ASN1_CHOICE_cb(tname, cb) \
```

```
    static const ASN1_AUX tname##_aux = {NULL, 0, 0, 0, cb, 0, NULL}; \
    ASN1_CHOICE(tname)

# define ASN1_CHOICE_END(stname) ASN1_CHOICE_END_name(stname, stname)

# define static_ASN1_CHOICE_END(stname) static_ASN1_CHOICE_END_name(stname, stname)

# define ASN1_CHOICE_END_name(stname, tname) ASN1_CHOICE_END_selector(stname, tname, type)

# define static_ASN1_CHOICE_END_name(stname, tname) static_ASN1_CHOICE_END_selector(stname, tname,
type)

# define ASN1_CHOICE_END_selector(stname, tname, selname) \
    ;\
    ASN1_ITEM_start(tname) \

   ASN1_ITYPE_CHOICE,\
        offsetof(stname,selname) ,\
        tname##_ch_tt,\
        sizeof(tname##_ch_tt) / sizeof(ASN1_TEMPLATE),\
        NULL,\
        sizeof(stname),\
        #stname \
    ASN1_ITEM_end(tname)

# define static_ASN1_CHOICE_END_selector(stname, tname, selname) \
    ;\
    static_ASN1_ITEM_start(tname) \
        ASN1_ITYPE_CHOICE,\
        offsetof(stname,selname) ,\
        tname##_ch_tt,\
        sizeof(tname##_ch_tt) / sizeof(ASN1_TEMPLATE),\
        NULL,\
        sizeof(stname),\
        #stname \
    ASN1_ITEM_end(tname)

# define ASN1_CHOICE_END_cb(stname, tname, selname) \
    ;\
    ASN1_ITEM_start(tname) \
        ASN1_ITYPE_CHOICE,\
        offsetof(stname,selname) ,\
        tname##_ch_tt,\
        sizeof(tname##_ch_tt) / sizeof(ASN1_TEMPLATE),\
        &tname##_aux,\

  sizeof(stname),\
        #stname \
```

```
	ASN1_ITEM_end(tname)

/* This helps with the template wrapper form of ASN1_ITEM */

# define ASN1_EX_TEMPLATE_TYPE(flags, tag, name, type) { \
	(flags), (tag), 0,\
	#name, ASN1_ITEM_ref(type) }

/* These help with SEQUENCE or CHOICE components */

/* used to declare other types */

# define ASN1_EX_TYPE(flags, tag, stname, field, type) { \
	(flags), (tag), offsetof(stname, field),\
	#field, ASN1_ITEM_ref(type) }

/* implicit and explicit helper macros */

# define ASN1_IMP_EX(stname, field, type, tag, ex) \
	 ASN1_EX_TYPE(ASN1_TFLG_IMPLICIT | (ex), tag, stname, field, type)

# define ASN1_EXP_EX(stname, field, type, tag, ex) \
	 ASN1_EX_TYPE(ASN1_TFLG_EXPLICIT | (ex), tag, stname, field, type)

/* Any defined by macros: the field used is in the table itself */

# define ASN1_ADB_OBJECT(tblname) { ASN1_TFLG_ADB_OID, -1, 0, #tblname, tblname##_adb }
# define ASN1_ADB_INTEGER(tblname) { ASN1_TFLG_ADB_INT,
 -1, 0, #tblname, tblname##_adb }

/* Plain simple type */
# define ASN1_SIMPLE(stname, field, type) ASN1_EX_TYPE(0,0, stname, field, type)
/* Embedded simple type */
# define ASN1_EMBED(stname, field, type) ASN1_EX_TYPE(ASN1_TFLG_EMBED,0, stname, field, type)

/* OPTIONAL simple type */
# define ASN1_OPT(stname, field, type) ASN1_EX_TYPE(ASN1_TFLG_OPTIONAL, 0, stname, field, type)
# define ASN1_OPT_EMBED(stname, field, type)
ASN1_EX_TYPE(ASN1_TFLG_OPTIONAL|ASN1_TFLG_EMBED, 0, stname, field, type)

/* IMPLICIT tagged simple type */
# define ASN1_IMP(stname, field, type, tag) ASN1_IMP_EX(stname, field, type, tag, 0)
# define ASN1_IMP_EMBED(stname, field, type, tag) ASN1_IMP_EX(stname, field, type, tag,
ASN1_TFLG_EMBED)

/* IMPLICIT tagged OPTIONAL simple type */
# define ASN1_IMP_OPT(stname, field, type, tag) ASN1_IMP_EX(stname, field, type, tag,
ASN1_TFLG_OPTIONAL)
```

```
# define ASN1_IMP_OPT_EMBED(stname, field, type, tag) ASN1_IMP_EX(stname, field, type, tag,
ASN1_TFLG_OPTIONAL|ASN1_TFLG_EMBED)

/*
 Same as above but EXPLICIT */

# define ASN1_EXP(stname, field, type, tag) ASN1_EXP_EX(stname, field, type, tag, 0)
# define ASN1_EXP_EMBED(stname, field, type, tag) ASN1_EXP_EX(stname, field, type, tag,
ASN1_TFLG_EMBED)
# define ASN1_EXP_OPT(stname, field, type, tag) ASN1_EXP_EX(stname, field, type, tag,
ASN1_TFLG_OPTIONAL)
# define ASN1_EXP_OPT_EMBED(stname, field, type, tag) ASN1_EXP_EX(stname, field, type, tag,
ASN1_TFLG_OPTIONAL|ASN1_TFLG_EMBED)

/* SEQUENCE OF type */
# define ASN1_SEQUENCE_OF(stname, field, type) \
        ASN1_EX_TYPE(ASN1_TFLG_SEQUENCE_OF, 0, stname, field, type)

/* OPTIONAL SEQUENCE OF */
# define ASN1_SEQUENCE_OF_OPT(stname, field, type) \
        ASN1_EX_TYPE(ASN1_TFLG_SEQUENCE_OF|ASN1_TFLG_OPTIONAL, 0, stname, field, type)

/* Same as above but for SET OF */

# define ASN1_SET_OF(stname, field, type) \
        ASN1_EX_TYPE(ASN1_TFLG_SET_OF, 0, stname, field, type)

# define ASN1_SET_OF_OPT(stname, field, type)
 \
        ASN1_EX_TYPE(ASN1_TFLG_SET_OF|ASN1_TFLG_OPTIONAL, 0, stname, field, type)

/* Finally compound types of SEQUENCE, SET, IMPLICIT, EXPLICIT and OPTIONAL */

# define ASN1_IMP_SET_OF(stname, field, type, tag) \
            ASN1_IMP_EX(stname, field, type, tag, ASN1_TFLG_SET_OF)

# define ASN1_EXP_SET_OF(stname, field, type, tag) \
            ASN1_EXP_EX(stname, field, type, tag, ASN1_TFLG_SET_OF)

# define ASN1_IMP_SET_OF_OPT(stname, field, type, tag) \
            ASN1_IMP_EX(stname, field, type, tag, ASN1_TFLG_SET_OF|ASN1_TFLG_OPTIONAL)

# define ASN1_EXP_SET_OF_OPT(stname, field, type, tag) \
            ASN1_EXP_EX(stname, field, type, tag, ASN1_TFLG_SET_OF|ASN1_TFLG_OPTIONAL)

# define ASN1_IMP_SEQUENCE_OF(stname, field, type, tag) \
            ASN1_IMP_EX(stname, field, type, tag, ASN1_TFLG_SEQUENCE_OF)
```

```
# define ASN1_IMP_SEQUENCE_OF_OPT(stname, field, type, tag) \
                ASN1_IMP_EX(stname,
 field, type, tag, ASN1_TFLG_SEQUENCE_OF|ASN1_TFLG_OPTIONAL)

# define ASN1_EXP_SEQUENCE_OF(stname, field, type, tag) \
                ASN1_EXP_EX(stname, field, type, tag, ASN1_TFLG_SEQUENCE_OF)

# define ASN1_EXP_SEQUENCE_OF_OPT(stname, field, type, tag) \
                ASN1_EXP_EX(stname, field, type, tag,
ASN1_TFLG_SEQUENCE_OF|ASN1_TFLG_OPTIONAL)

/* EXPLICIT using indefinite length constructed form */
# define ASN1_NDEF_EXP(stname, field, type, tag) \
                ASN1_EXP_EX(stname, field, type, tag, ASN1_TFLG_NDEF)

/* EXPLICIT OPTIONAL using indefinite length constructed form */
# define ASN1_NDEF_EXP_OPT(stname, field, type, tag) \
                ASN1_EXP_EX(stname, field, type, tag, ASN1_TFLG_OPTIONAL|ASN1_TFLG_NDEF)

/* Macros for the ASN1_ADB structure */

# define ASN1_ADB(name) \
    static const ASN1_ADB_TABLE name##_adbtbl[]

# define ASN1_ADB_END(name, flags, field, adb_cb, def, none) \
    ;\
    static const ASN1_ITEM
 *name##_adb(void) \
    { \
    static const ASN1_ADB internal_adb = \
        {\
        flags,\
        offsetof(name, field),\
        adb_cb,\
        name##_adbtbl,\
        sizeof(name##_adbtbl) / sizeof(ASN1_ADB_TABLE),\
        def,\
        none\
        }; \
        return (const ASN1_ITEM *) &internal_adb; \
    } \
    void dummy_function(void)

# define ADB_ENTRY(val, template) {val, template}

# define ASN1_ADB_TEMPLATE(name) \
    static const ASN1_TEMPLATE name##_tt
```

```
/*
* This is the ASN1 template structure that defines a wrapper round the
* actual type. It determines the actual position of the field in the value
* structure, various flags such as OPTIONAL and the field name.
*/

struct ASN1_TEMPLATE_st {
   unsigned long flags;        /* Various flags */
   long tag;                   /* tag, not used if no tagging */
   unsigned long offset;       /* Offset
 of this field in structure */
   const char *field_name;     /* Field name */
   ASN1_ITEM_EXP *item;        /* Relevant ASN1_ITEM or ASN1_ADB */
};

/* Macro to extract ASN1_ITEM and ASN1_ADB pointer from ASN1_TEMPLATE */

# define ASN1_TEMPLATE_item(t) (t->item_ptr)
# define ASN1_TEMPLATE_adb(t) (t->item_ptr)

typedef struct ASN1_ADB_TABLE_st ASN1_ADB_TABLE;
typedef struct ASN1_ADB_st ASN1_ADB;

struct ASN1_ADB_st {
   unsigned long flags;        /* Various flags */
   unsigned long offset;       /* Offset of selector field */
   int (*adb_cb)(long *psel);  /* Application callback */
   const ASN1_ADB_TABLE *tbl;  /* Table of possible types */
   long tblcount;              /* Number of entries in tbl */
   const ASN1_TEMPLATE *default_tt; /* Type to use if no match */
   const ASN1_TEMPLATE *null_tt; /* Type to use if selector is NULL */
};

struct ASN1_ADB_TABLE_st {
   long value;                 /* NID for an object or value for an int */
   const ASN1_TEMPLATE tt;
   /* item for this value */
};

/* template flags */

/* Field is optional */
# define ASN1_TFLG_OPTIONAL      (0x1)

/* Field is a SET OF */
# define ASN1_TFLG_SET_OF        (0x1 << 1)

/* Field is a SEQUENCE OF */
```

```
# define ASN1_TFLG_SEQUENCE_OF   (0x2 << 1)

/*
* Special case: this refers to a SET OF that will be sorted into DER order
* when encoded *and* the corresponding STACK will be modified to match the
* new order.
*/
# define ASN1_TFLG_SET_ORDER     (0x3 << 1)

/* Mask for SET OF or SEQUENCE OF */
# define ASN1_TFLG_SK_MASK       (0x3 << 1)

/*
* These flags mean the tag should be taken from the tag field. If EXPLICIT
* then the underlying type is used for the inner tag.
*/

/* IMPLICIT tagging */
# define ASN1_TFLG_IMPTAG        (0x1 << 3)

/* EXPLICIT tagging, inner tag from underlying type */
# define ASN1_TFLG_EXPTAG        (0x2 << 3)

# define ASN1_TFLG_TAG_MASK      (0x3 << 3)

/* context specific IMPLICIT */
# define ASN1_TFLG_IMPLICIT      (ASN1_TFLG_IMPTAG|ASN1_TFLG_CONTEXT)

/*
 context specific EXPLICIT */
# define ASN1_TFLG_EXPLICIT      (ASN1_TFLG_EXPTAG|ASN1_TFLG_CONTEXT)

/*
* If tagging is in force these determine the type of tag to use. Otherwise
* the tag is determined by the underlying type. These values reflect the
* actual octet format.
*/

/* Universal tag */
# define ASN1_TFLG_UNIVERSAL     (0x0<<6)
/* Application tag */
# define ASN1_TFLG_APPLICATION   (0x1<<6)
/* Context specific tag */
# define ASN1_TFLG_CONTEXT       (0x2<<6)
/* Private tag */
# define ASN1_TFLG_PRIVATE       (0x3<<6)

# define ASN1_TFLG_TAG_CLASS     (0x3<<6)
```

```
/*
* These are for ANY DEFINED BY type. In this case the 'item' field points to
* an ASN1_ADB structure which contains a table of values to decode the
* relevant type
*/

# define ASN1_TFLG_ADB_MASK      (0x3<<8)

# define ASN1_TFLG_ADB_OID       (0x1<<8)

# define ASN1_TFLG_ADB_INT       (0x1<<9)

/*
* This flag when present in a SEQUENCE OF, SET OF or EXPLICIT causes
* indefinite length constructed
 encoding to be used if required.
*/

# define ASN1_TFLG_NDEF          (0x1<<11)

/* Field is embedded and not a pointer */
# define ASN1_TFLG_EMBED         (0x1 << 12)

/* This is the actual ASN1 item itself */

struct ASN1_ITEM_st {
   char itype;                /* The item type, primitive, SEQUENCE, CHOICE
                              * or extern */
   long utype;                /* underlying type */
   const ASN1_TEMPLATE *templates; /* If SEQUENCE or CHOICE this contains
                              * the contents */
   long tcount;               /* Number of templates if SEQUENCE or CHOICE */
   const void *funcs;         /* further data and type-specific functions */
   /* funcs can be ASN1_PRIMITIVE_FUNCS*, ASN1_EXTERN_FUNCS*, or ASN1_AUX* */
   long size;                 /* Structure size (usually) */
   const char *sname;         /* Structure name */
};

/*
* Cache for ASN1 tag and length, so we don't keep re-reading it for things
* like
 CHOICE
*/

struct ASN1_TLC_st {
   char valid;                /* Values below are valid */
   int ret;                   /* return value */
```

```
  long plen;              /* length */
  int ptag;               /* class value */
  int pclass;             /* class value */
  int hdrlen;             /* header length */
};

/* Typedefs for ASN1 function pointers */
typedef int ASN1_ex_d2i(ASN1_VALUE **pval, const unsigned char **in, long len,
                        const ASN1_ITEM *it, int tag, int aclass, char opt,
                        ASN1_TLC *ctx);

typedef int ASN1_ex_d2i_ex(ASN1_VALUE **pval, const unsigned char **in, long len,
                           const ASN1_ITEM *it, int tag, int aclass, char opt,
                           ASN1_TLC *ctx, OSSL_LIB_CTX *libctx,
                           const char *propq);
typedef int ASN1_ex_i2d(const ASN1_VALUE **pval, unsigned char **out,
                        const ASN1_ITEM *it, int tag, int aclass);
typedef
 int ASN1_ex_new_func(ASN1_VALUE **pval, const ASN1_ITEM *it);
typedef int ASN1_ex_new_ex_func(ASN1_VALUE **pval, const ASN1_ITEM *it,
                                OSSL_LIB_CTX *libctx, const char *propq);
typedef void ASN1_ex_free_func(ASN1_VALUE **pval, const ASN1_ITEM *it);

typedef int ASN1_ex_print_func(BIO *out, const ASN1_VALUE **pval,
                               int indent, const char *fname,
                               const ASN1_PCTX *pctx);

typedef int ASN1_primitive_i2c(const ASN1_VALUE **pval, unsigned char *cont,
                               int *putype, const ASN1_ITEM *it);
typedef int ASN1_primitive_c2i(ASN1_VALUE **pval, const unsigned char *cont,
                               int len, int utype, char *free_cont,
                               const ASN1_ITEM *it);
typedef int ASN1_primitive_print(BIO *out, const ASN1_VALUE **pval,
                                 const ASN1_ITEM *it, int indent,
                                 const ASN1_PCTX *pctx);

typedef
 struct ASN1_EXTERN_FUNCS_st {
  void *app_data;
  ASN1_ex_new_func *asn1_ex_new;
  ASN1_ex_free_func *asn1_ex_free;
  ASN1_ex_free_func *asn1_ex_clear;
  ASN1_ex_d2i *asn1_ex_d2i;
  ASN1_ex_i2d *asn1_ex_i2d;
  ASN1_ex_print_func *asn1_ex_print;
  ASN1_ex_new_ex_func *asn1_ex_new_ex;
  ASN1_ex_d2i_ex *asn1_ex_d2i_ex;
} ASN1_EXTERN_FUNCS;
```

```
typedef struct ASN1_PRIMITIVE_FUNCS_st {
   void *app_data;
   unsigned long flags;
   ASN1_ex_new_func *prim_new;
   ASN1_ex_free_func *prim_free;
   ASN1_ex_free_func *prim_clear;
   ASN1_primitive_c2i *prim_c2i;
   ASN1_primitive_i2c *prim_i2c;
   ASN1_primitive_print *prim_print;
} ASN1_PRIMITIVE_FUNCS;

/*
* This is the ASN1_AUX structure: it handles various miscellaneous
* requirements. For example the use of reference counts and an informational
* callback. The "informational callback" is called at various points during
* the ASN1 encoding and decoding. It can be used to provide minor
* customisation of the
 structures used. This is most useful where the
* supplied routines *almost* do the right thing but need some extra help at
* a few points. If the callback returns zero then it is assumed a fatal
* error has occurred and the main operation should be abandoned. If major
* changes in the default behaviour are required then an external type is
* more appropriate.
* For the operations ASN1_OP_I2D_PRE, ASN1_OP_I2D_POST, ASN1_OP_PRINT_PRE, and
* ASN1_OP_PRINT_POST, meanwhile a variant of the callback with const parameter
* 'in' is provided to make clear statically that its input is not modified. If
* and only if this variant is in use the flag ASN1_AFLG_CONST_CB must be set.
*/

typedef int ASN1_aux_cb(int operation, ASN1_VALUE **in, const ASN1_ITEM *it,
                        void *exarg);
typedef int ASN1_aux_const_cb(int operation, const ASN1_VALUE **in,
                              const ASN1_ITEM *it, void *exarg);

typedef struct ASN1_AUX_st {
   void *app_data;
   int flags;
    int ref_offset;             /* Offset of reference value */
   int ref_lock;               /* Offset of lock value */
   ASN1_aux_cb *asn1_cb;
   int enc_offset;             /* Offset of ASN1_ENCODING structure */
   ASN1_aux_const_cb *asn1_const_cb; /* for ASN1_OP_I2D_ and ASN1_OP_PRINT_ */
} ASN1_AUX;

/* For print related callbacks exarg points to this structure */
typedef struct ASN1_PRINT_ARG_st {
   BIO *out;
```

```
  int indent;
  const ASN1_PCTX *pctx;
} ASN1_PRINT_ARG;

/* For streaming related callbacks exarg points to this structure */
typedef struct ASN1_STREAM_ARG_st {
  /* BIO to stream through */
  BIO *out;
  /* BIO with filters appended */
  BIO *ndef_bio;
  /* Streaming I/O boundary */
  unsigned char **boundary;
} ASN1_STREAM_ARG;

/* Flags in ASN1_AUX */

/* Use a reference count */
# define ASN1_AFLG_REFCOUNT      1
/* Save the encoding of structure (useful for signatures) */
# define ASN1_AFLG_ENCODING      2
/* The Sequence length is invalid
 */
# define ASN1_AFLG_BROKEN        4
/* Use the new asn1_const_cb */
# define ASN1_AFLG_CONST_CB      8

/* operation values for asn1_cb */

# define ASN1_OP_NEW_PRE         0
# define ASN1_OP_NEW_POST        1
# define ASN1_OP_FREE_PRE        2
# define ASN1_OP_FREE_POST       3
# define ASN1_OP_D2I_PRE         4
# define ASN1_OP_D2I_POST        5
# define ASN1_OP_I2D_PRE         6
# define ASN1_OP_I2D_POST        7
# define ASN1_OP_PRINT_PRE       8
# define ASN1_OP_PRINT_POST      9
# define ASN1_OP_STREAM_PRE      10
# define ASN1_OP_STREAM_POST     11
# define ASN1_OP_DETACHED_PRE    12
# define ASN1_OP_DETACHED_POST   13
# define ASN1_OP_DUP_PRE         14
# define ASN1_OP_DUP_POST        15
# define ASN1_OP_GET0_LIBCTX     16
# define ASN1_OP_GET0_PROPQ      17

/* Macro to implement a primitive type */
```

```
# define IMPLEMENT_ASN1_TYPE(stname) IMPLEMENT_ASN1_TYPE_ex(stname, stname, 0)
# define IMPLEMENT_ASN1_TYPE_ex(itname, vname, ex) \
                        ASN1_ITEM_start(itname)
 \
                              ASN1_ITYPE_PRIMITIVE, V_##vname, NULL, 0, NULL, ex, #itname \
                        ASN1_ITEM_end(itname)

/* Macro to implement a multi string type */
# define IMPLEMENT_ASN1_MSTRING(itname, mask) \
                        ASN1_ITEM_start(itname) \
                              ASN1_ITYPE_MSTRING, mask, NULL, 0, NULL, sizeof(ASN1_STRING), #itname \
                        ASN1_ITEM_end(itname)

# define IMPLEMENT_EXTERN_ASN1(sname, tag, fptrs) \
      ASN1_ITEM_start(sname) \
            ASN1_ITYPE_EXTERN, \
            tag, \
            NULL, \
            0, \
            &fptrs, \
            0, \
            #sname \
      ASN1_ITEM_end(sname)

/* Macro to implement standard functions in terms of ASN1_ITEM structures */

# define IMPLEMENT_ASN1_FUNCTIONS(stname) IMPLEMENT_ASN1_FUNCTIONS_fname(stname,
stname, stname)

# define IMPLEMENT_ASN1_FUNCTIONS_name(stname,
 itname) IMPLEMENT_ASN1_FUNCTIONS_fname(stname, itname, itname)

# define IMPLEMENT_ASN1_FUNCTIONS_ENCODE_name(stname, itname) \
                  IMPLEMENT_ASN1_FUNCTIONS_ENCODE_fname(stname, itname, itname)

# define IMPLEMENT_STATIC_ASN1_ALLOC_FUNCTIONS(stname) \
            IMPLEMENT_ASN1_ALLOC_FUNCTIONS_pfname(static, stname, stname, stname)

# define IMPLEMENT_ASN1_ALLOC_FUNCTIONS(stname) \
            IMPLEMENT_ASN1_ALLOC_FUNCTIONS_fname(stname, stname, stname)

# define IMPLEMENT_ASN1_ALLOC_FUNCTIONS_pfname(pre, stname, itname, fname) \
      pre stname *fname##_new(void) \
      { \
            return (stname *)ASN1_item_new(ASN1_ITEM_rptr(itname)); \
      } \
      pre void fname##_free(stname *a) \
      { \
```

```
        ASN1_item_free((ASN1_VALUE *)a, ASN1_ITEM_rptr(itname)); \
    }

# define IMPLEMENT_ASN1_ALLOC_FUNCTIONS_fname(stname, itname, fname) \
    stname *fname##_new(void) \
    { \
        return (stname *)ASN1_item_new(ASN1_ITEM_rptr(itname));
 \
    } \
    void fname##_free(stname *a) \
    { \
        ASN1_item_free((ASN1_VALUE *)a, ASN1_ITEM_rptr(itname)); \
    }

# define IMPLEMENT_ASN1_FUNCTIONS_fname(stname, itname, fname) \
    IMPLEMENT_ASN1_ENCODE_FUNCTIONS_fname(stname, itname, fname) \
    IMPLEMENT_ASN1_ALLOC_FUNCTIONS_fname(stname, itname, fname)

# define IMPLEMENT_ASN1_ENCODE_FUNCTIONS_fname(stname, itname, fname) \
    stname *d2i_##fname(stname **a, const unsigned char **in, long len) \
    { \
        return (stname *)ASN1_item_d2i((ASN1_VALUE **)a, in, len, ASN1_ITEM_rptr(itname));\
    } \
    int i2d_##fname(const stname *a, unsigned char **out) \
    { \
        return ASN1_item_i2d((const ASN1_VALUE *)a, out, ASN1_ITEM_rptr(itname));\
    }

# define IMPLEMENT_ASN1_NDEF_FUNCTION(stname) \
    int i2d_##stname##_NDEF(const stname *a, unsigned char **out) \
    { \
        return
 ASN1_item_ndef_i2d((const ASN1_VALUE *)a, out, ASN1_ITEM_rptr(stname));\
    }

# define IMPLEMENT_STATIC_ASN1_ENCODE_FUNCTIONS(stname) \
    static stname *d2i_##stname(stname **a, \
                        const unsigned char **in, long len) \
    { \
        return (stname *)ASN1_item_d2i((ASN1_VALUE **)a, in, len, \
                            ASN1_ITEM_rptr(stname)); \
    } \
    static int i2d_##stname(const stname *a, unsigned char **out) \
    { \
        return ASN1_item_i2d((const ASN1_VALUE *)a, out, \
                        ASN1_ITEM_rptr(stname)); \
    }
```

```
# define IMPLEMENT_ASN1_DUP_FUNCTION(stname) \
      stname * stname##_dup(const stname *x) \
      { \
      return ASN1_item_dup(ASN1_ITEM_rptr(stname), x); \
      }

# define IMPLEMENT_ASN1_PRINT_FUNCTION(stname) \
      IMPLEMENT_ASN1_PRINT_FUNCTION_fname(stname, stname, stname)

# define IMPLEMENT_ASN1_PRINT_FUNCTION_fname(stname,
 itname, fname) \
      int fname##_print_ctx(BIO *out, const stname *x, int indent, \
                                    const ASN1_PCTX *pctx) \
      { \
            return ASN1_item_print(out, (const ASN1_VALUE *)x, indent, \
                  ASN1_ITEM_rptr(itname), pctx); \
      }

/* external definitions for primitive types */

DECLARE_ASN1_ITEM(ASN1_BOOLEAN)
DECLARE_ASN1_ITEM(ASN1_TBOOLEAN)
DECLARE_ASN1_ITEM(ASN1_FBOOLEAN)
DECLARE_ASN1_ITEM(ASN1_SEQUENCE)
DECLARE_ASN1_ITEM(CBIGNUM)
DECLARE_ASN1_ITEM(BIGNUM)
DECLARE_ASN1_ITEM(INT32)
DECLARE_ASN1_ITEM(ZINT32)
DECLARE_ASN1_ITEM(UINT32)
DECLARE_ASN1_ITEM(ZUINT32)
DECLARE_ASN1_ITEM(INT64)
DECLARE_ASN1_ITEM(ZINT64)
DECLARE_ASN1_ITEM(UINT64)
DECLARE_ASN1_ITEM(ZUINT64)

# ifndef OPENSSL_NO_DEPRECATED_3_0
/*
* LONG and ZLONG are strongly discouraged for use as stored data, as the
* underlying C type (long) differs in size depending on the architecture.
* They are designed with 32-bit longs
 in mind.
*/
DECLARE_ASN1_ITEM(LONG)
DECLARE_ASN1_ITEM(ZLONG)
# endif

SKM_DEFINE_STACK_OF_INTERNAL(ASN1_VALUE, ASN1_VALUE, ASN1_VALUE)
#define sk_ASN1_VALUE_num(sk) OPENSSL_sk_num(ossl_check_const_ASN1_VALUE_sk_type(sk))
```

```
#define sk_ASN1_VALUE_value(sk, idx) ((ASN1_VALUE
*)OPENSSL_sk_value(ossl_check_const_ASN1_VALUE_sk_type(sk), (idx)))
#define sk_ASN1_VALUE_new(cmp) ((STACK_OF(ASN1_VALUE)
*)OPENSSL_sk_new(ossl_check_ASN1_VALUE_compfunc_type(cmp)))
#define sk_ASN1_VALUE_new_null() ((STACK_OF(ASN1_VALUE) *)OPENSSL_sk_new_null())
#define sk_ASN1_VALUE_new_reserve(cmp, n) ((STACK_OF(ASN1_VALUE)
*)OPENSSL_sk_new_reserve(ossl_check_ASN1_VALUE_compfunc_type(cmp), (n)))
#define sk_ASN1_VALUE_reserve(sk, n) OPENSSL_sk_reserve(ossl_check_ASN1_VALUE_sk_type(sk), (n))
#define sk_ASN1_VALUE_free(sk) OPENSSL_sk_free(ossl_check_ASN1_VALUE_sk_type(sk))
#define sk_ASN1_VALUE_zero(sk) OPENSSL_sk_zero(ossl_check_ASN1_VALUE_sk_type(sk))
#define sk_ASN1_VALUE_delete(sk, i) ((ASN1_VALUE
*)OPENSSL_sk_delete(ossl_check_ASN1_VALUE_sk_type(sk),
 (i)))
#define sk_ASN1_VALUE_delete_ptr(sk, ptr) ((ASN1_VALUE
*)OPENSSL_sk_delete_ptr(ossl_check_ASN1_VALUE_sk_type(sk), ossl_check_ASN1_VALUE_type(ptr)))
#define sk_ASN1_VALUE_push(sk, ptr) OPENSSL_sk_push(ossl_check_ASN1_VALUE_sk_type(sk),
ossl_check_ASN1_VALUE_type(ptr))
#define sk_ASN1_VALUE_unshift(sk, ptr) OPENSSL_sk_unshift(ossl_check_ASN1_VALUE_sk_type(sk),
ossl_check_ASN1_VALUE_type(ptr))
#define sk_ASN1_VALUE_pop(sk) ((ASN1_VALUE
*)OPENSSL_sk_pop(ossl_check_ASN1_VALUE_sk_type(sk)))
#define sk_ASN1_VALUE_shift(sk) ((ASN1_VALUE
*)OPENSSL_sk_shift(ossl_check_ASN1_VALUE_sk_type(sk)))
#define sk_ASN1_VALUE_pop_free(sk, freefunc)
OPENSSL_sk_pop_free(ossl_check_ASN1_VALUE_sk_type(sk),ossl_check_ASN1_VALUE_freefunc_type(freef
unc))
#define sk_ASN1_VALUE_insert(sk, ptr, idx) OPENSSL_sk_insert(ossl_check_ASN1_VALUE_sk_type(sk),
ossl_check_ASN1_VALUE_type(ptr), (idx))
#define sk_ASN1_VALUE_set(sk, idx, ptr) ((ASN1_VALUE
*)OPENSSL_sk_set(ossl_check_ASN1_VALUE_sk_type(sk),
 (idx), ossl_check_ASN1_VALUE_type(ptr)))
#define sk_ASN1_VALUE_find(sk, ptr) OPENSSL_sk_find(ossl_check_ASN1_VALUE_sk_type(sk),
ossl_check_ASN1_VALUE_type(ptr))
#define sk_ASN1_VALUE_find_ex(sk, ptr) OPENSSL_sk_find_ex(ossl_check_ASN1_VALUE_sk_type(sk),
ossl_check_ASN1_VALUE_type(ptr))
#define sk_ASN1_VALUE_find_all(sk, ptr, pnum)
OPENSSL_sk_find_all(ossl_check_ASN1_VALUE_sk_type(sk), ossl_check_ASN1_VALUE_type(ptr), pnum)
#define sk_ASN1_VALUE_sort(sk) OPENSSL_sk_sort(ossl_check_ASN1_VALUE_sk_type(sk))
#define sk_ASN1_VALUE_is_sorted(sk) OPENSSL_sk_is_sorted(ossl_check_const_ASN1_VALUE_sk_type(sk))
#define sk_ASN1_VALUE_dup(sk) ((STACK_OF(ASN1_VALUE)
*)OPENSSL_sk_dup(ossl_check_const_ASN1_VALUE_sk_type(sk)))
#define sk_ASN1_VALUE_deep_copy(sk, copyfunc, freefunc) ((STACK_OF(ASN1_VALUE)
*)OPENSSL_sk_deep_copy(ossl_check_const_ASN1_VALUE_sk_type(sk),
ossl_check_ASN1_VALUE_copyfunc_type(copyfunc), ossl_check_ASN1_VALUE_freefunc_type(freefunc)))
#define sk_ASN1_VALUE_set_cmp_func(sk,
 cmp) ((sk_ASN1_VALUE_compfunc)OPENSSL_sk_set_cmp_func(ossl_check_ASN1_VALUE_sk_type(sk),
ossl_check_ASN1_VALUE_compfunc_type(cmp)))
```

```
/* Functions used internally by the ASN1 code */

int ASN1_item_ex_new(ASN1_VALUE **pval, const ASN1_ITEM *it);
void ASN1_item_ex_free(ASN1_VALUE **pval, const ASN1_ITEM *it);

int ASN1_item_ex_d2i(ASN1_VALUE **pval, const unsigned char **in, long len,
                const ASN1_ITEM *it, int tag, int aclass, char opt,
                ASN1_TLC *ctx);

int ASN1_item_ex_i2d(const ASN1_VALUE **pval, unsigned char **out,
                const ASN1_ITEM *it, int tag, int aclass);

/* Legacy compatibility */
# define IMPLEMENT_ASN1_FUNCTIONS_const(name) IMPLEMENT_ASN1_FUNCTIONS(name)
# define IMPLEMENT_ASN1_ENCODE_FUNCTIONS_const_fname(stname, itname, fname) \
      IMPLEMENT_ASN1_ENCODE_FUNCTIONS_fname(stname, itname, fname)

#ifdef  __cplusplus
}
#endif
#endif
```

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"""
{
'variables': {
  'openssl_sources': [
    'openssl/crypto/aes/aes_ecb.c',
    'openssl/crypto/aes/aes_misc.c',
    'openssl/crypto/bn/asm/x86_64-gcc.c',
    'openssl/crypto/bn/bn_add.c',
    'openssl/crypto/bn/bn_blind.c',
    'openssl/crypto/bn/bn_const.c',
    'openssl/crypto/bn/bn_conv.c',
    'openssl/crypto/bn/bn_ctx.c',
    'openssl/crypto/bn/bn_dh.c',
    'openssl/crypto/bn/bn_div.c',
    'openssl/crypto/bn/bn_exp.c',
    'openssl/crypto/bn/bn_exp2.c',
    'openssl/crypto/bn/bn_gcd.c',

'openssl/crypto/bn/bn_gf2m.c',
'openssl/crypto/bn/bn_intern.c',
'openssl/crypto/bn/bn_kron.c',
'openssl/crypto/bn/bn_lib.c',
'openssl/crypto/bn/bn_mod.c',
'openssl/crypto/bn/bn_mont.c',
'openssl/crypto/bn/bn_mpi.c',
'openssl/crypto/bn/bn_mul.c',
'openssl/crypto/bn/bn_nist.c',
'openssl/crypto/bn/bn_prime.c',
'openssl/crypto/bn/bn_rand.c',
'openssl/crypto/bn/bn_recp.c',
'openssl/crypto/bn/bn_rsa_fips186_4.c',
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'openssl/crypto/dsa/dsa_vrf.c',
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'openssl/crypto/ec/curve448/arch_64/f_impl64.c',
'openssl/crypto/ec/curve448/curve448.c',
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  'openssl/providers/common/provider_err.c',
  'openssl/providers/implementations/ciphers/ciphercommon.c',
  'openssl/providers/implementations/ciphers/ciphercommon_block.c',
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  'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
  'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
  'openssl/providers/implementations/digests/digestcommon.c',
  'openssl/ssl/record/tls_pad.c',
  'openssl/providers/fips/fips_entry.c',

],
'openssl_sources_BSD-x86_64': [
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  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/aesni-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/bsaes-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx2.s',
   './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx512.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s',
  './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont5.s',
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  './config/archs/BSD-x86_64/asm_avx2/crypto/ec/x25519-x86_64.s',
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  './config/archs/BSD-x86_64/asm_avx2/crypto/whrlpool/wp-x86_64.s',
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    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_digests_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_dsa_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_ec_gen.c',
     './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_ecx_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_rsa_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/common/der/der_wrap_gen.c',
    './config/archs/BSD-x86_64/asm_avx2/providers/legacy.ld',
    './config/archs/BSD-x86_64/asm_avx2/providers/fips.ld',

  ],
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    'AES_ASM',
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    'ECP_NISTZ256_ASM',
    'FIPS_MODULE',
    'GHASH_ASM',
    'KECCAK1600_ASM',
    'OPENSSL_BN_ASM_GF2m',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_MONT5',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'X25519_ASM',
    'FIPS_MODULE',
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    '-pthread',
    '-Wall -O3',
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  'openssl_ex_libs_BSD-x86_64': [
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  ],
  'linker_script': ''
},
'include_dirs': [
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  './include',
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  './crypto/include/internal',
  './providers/common/include',
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 'direct_dependent_settings': {
  'include_dirs': ['./include', '.'],
  'defines': ['<@(openssl_defines_BSD-x86_64)'],
 },
}
```

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The basic library functions are written in C and are freestanding. Also
included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS

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Email local part: ph10
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University of Cambridge Computing Service,
Cambridge, England.

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```
/*
* WARNING: do not edit!
* Generated by Makefile from include/openssl/fipskey.h.in
*
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* this file except in compliance with the License.  You can obtain a copy
* in the file LICENSE in the source distribution or at
* https://www.openssl.org/source/license.html
*/

#ifndef OPENSSL_FIPSKEY_H
# define OPENSSL_FIPSKEY_H
# pragma once

# ifdef  __cplusplus
extern "C" {
# endif

/*
* The FIPS validation HMAC key, usable as an array initializer.
*/
#define FIPS_KEY_ELEMENTS \
   0xf4, 0x55, 0x66, 0x50, 0xac, 0x31, 0xd3, 0x54, 0x61, 0x61, 0x0b, 0xac, 0x4e, 0xd8, 0x1b, 0x1a, 0x18, 0x1b,
0x2d, 0x8a, 0x43, 0xea, 0x28, 0x54, 0xcb, 0xae, 0x22, 0xca, 0x74, 0x56, 0x08, 0x13

/*
* The FIPS validation key, as a string.
*/
#define FIPS_KEY_STRING "f4556650ac31d35461610bac4ed81b1a181b2d8a43ea2854cbae22ca74560813"

# ifdef  __cplusplus
}
# endif

#endif
```

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1.5311 ipmi-tool 1.8.18-11ubuntu2.2

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1.5312 @npmcli/arborist 9.1.3

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1.5313 fahedouch-go-logrotate 0.3.0

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1.5314 npm 11.5.2

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1.5315 @npmcli/metavuln-calculator 9.0.1

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1.5316 ebpf 0.19.0

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1.5317 kubernetes-kubectl 0.33.3

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1.5318 kubernetes-apimachinery 0.33.4

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1.5319 tklauser-ps 0.0.3

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1.5320 go-osstat 0.2.6

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Gocheck - A rich testing framework for Go

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1.5323 component-base 0.33.3

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1.5324 k8s-io-apiextensions-apiserver 0.33.3

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1.5325 k8s-io-apiserver 0.33.3

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1.5326 python-requests 2.32.5

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1.5328 linux-libc-dev 5.15.0-152.162

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
* http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

```
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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{
 return (strcmp(license, "GPL") == 0
  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
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}

#endif
```

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1.5329 cpp 12.3.0-1ubuntu1~22.04.2

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Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

```
 ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
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 ftp://sourceware.org/pub/newlib/     (for newlib)
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```

The current gcc-12 source package is taken from the git gcc-12-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

```
Language       Compiler package  Library package    Documentation
-----------------------------------------------------------------------------
Ada
           gnat-12          libgnat-12          gnat-12-doc
C              gcc-12                               gcc-12-doc
C++            g++-12           libstdc++6         libstdc++6-12-doc
D              gdc-12
Fortran 95     gfortran-12      libgfortran5       gfortran-12-doc
Go             gccgo-12         libgo0
Objective C    gobjc-12         libobjc4
Objective C++  gobjc++-12
Modula-2       gm2-12           libgm2
```

For some language run-time libraries, Debian provides source files,
development files, debugging symbols and libraries containing position-
independent code in separate packages:

```
Language  Sources      Development   Debugging            Position-Independent
-----------------------------------------------------------------------------
C++                                  libstdc++6-12-dbg  libstdc++6-12-pic
D         libphobos-12-dev
```

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-12-base
Base files common to all compilers
gcc-12-soft-float Software floating point (ARM only)
gcc-12-source The sources with patches

Ada:
libgnat-util12-dev, libgnat-util12 GNAT version library

C:
cpp-12, cpp-12-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-12 Ada support library and libgnat-util12 library.
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D:

gdc-12	GNU D Compiler
libphobos-12-dev	D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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The Phobos standard runtime library:
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#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this.  These are
   used as arguments to the function __VLTChangePermission, declared
   below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
```

```
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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Version 2.1, February 1999

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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/* Definitions for BSD assembler syntax for Intel 386
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler
 labels. If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

```
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
```

```
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">

```
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
```

```
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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1.5331 gcc-12-base 12.3.0-1ubuntu1~22.04.2

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   02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this.  These are
   used as arguments to the function __VLTChangePermission, declared
   below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
```

```
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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/* Definitions for BSD assembler syntax for Intel 386
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/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler
 labels. If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

```
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
```

```
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>
```

```
  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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   Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
   02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this.  These are
   used as arguments to the function __VLTChangePermission, declared
   below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
```

```
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler
 labels. If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

```
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
```

```
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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Julian Seward, jseward@bzip.org
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Version 3.1, 31 March 2009

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Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the
written offer to provide the Corresponding Source. This
alternative is allowed only occasionally and noncommercially, and
only if you received the object code with such an offer, in accord
with subsection 6b.

d) Convey the object code by offering access from a designated
place (gratis or for a charge), and offer equivalent access to the
Corresponding Source in
the same way through the same place at no
further charge. You need not require recipients to copy the
Corresponding Source along with the object code. If the place to
copy the object code is a network server, the Corresponding Source
may be on a different server (operated by you or a third party)
that supports equivalent copying facilities, provided you maintain
clear directions next to the object code saying where to find the
Corresponding Source. Regardless of what server hosts the
Corresponding Source, you remain obligated to ensure that it is
available for as long as needed to satisfy these requirements.

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you inform other peers where the object code and Corresponding
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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>
```

```
  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
 </div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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   02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this.  These are
   used as arguments to the function __VLTChangePermission, declared
   below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
```

```
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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/* Definitions for BSD assembler syntax for Intel 386
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler
 labels. If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size. */

```
#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
```

```
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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bzip2/libbzip2 version 1.0.6 of 6 September 2010

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Version 3, 29 June 2007

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<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">

```
    HOME_HREF
  </li>
  <li class="release">
    12_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
```

```
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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Julian Seward, jseward@bzip.org
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<signature of Ty Coon>, 1 April 1990
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DRuntime: Runtime Library for the D Programming Language
==========

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   Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
   02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this.  These are
   used as arguments to the function __VLTChangePermission, declared
```

```
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>.  */

/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */
```

```
/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
```

```
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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Version 3, 29 June 2007

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1.5339 k8s-io-apimachinery 0.33.4

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1.5341 apache-http-server 2.4.52-1ubuntu4.16

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  }
  else {
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
Mike Belshe (mbelshe@netscape.com)
Michael Campanella (campanella@stevms.enet.dec.com)

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1.5342 k8s.io/utils 0.0.0-20241104100929-3ea5e8cea738

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1.5343 flask 3.1.2

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1.5344 k8s.io/utils 0.0.0-20240310230437-4693a0247e57

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all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
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source code from the same place satisfies the requirement to
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5. A program that contains no derivative of any portion of the
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However, linking a "work that uses the Library" with the Library
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contains portions of the Library), rather than a "work that
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the
object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception,

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1.5346 glib 2.72.4-0ubuntu2.6

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)

in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's
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1.5355 k8s.io/utils 0.0.0-20250604170112-4c0f3b243397

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1.5356 x-text 0.28.0

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1.5357 golang 1.24.6

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
```

```
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.5358 x-net 0.43.0

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1.5359 x-sys 0.35.0

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1.5360 python3.12-minimal 3.12.3-1ubuntu0.8

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's

principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
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Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
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2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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1.5364 libc 1.61.13

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same job as widely used non-free libraries. In this
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@end enumerate

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2 above provided that you accompany
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must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

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that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline

functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
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link a ``work that uses the Library'' with the Library to produce a
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directing the user to the copy of
this License. Also, you must do one
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@enumerate a
@item
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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
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library already present on the user's computer system, rather than
copying library functions into the executable,

and (2) will operate
properly with a modified version of the library, if the user installs
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@item
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@end enumerate

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@enumerate a
@item
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facilities. This must be distributed under the terms of the
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Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
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@subheading END OF TERMS AND CONDITIONS

@page
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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became

Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.5368 supervisor 4.3.0

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1.5369 oslo-utils 9.1.0

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1.5370 kustomize-kyaml 0.20.1

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1.5377 errors 0.9.1

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1.5378 lua-cjson 2.1.0

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1.5379 blackfriday 2.0.1

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1.5380 setuptools-rust 1.12.0

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1.5381 golang 1.24.7

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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
```

```
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.5382 stdlib go1.25.1

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
```

```
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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1.5383 golang 1.25.1

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```
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package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }
```

```
  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
  return nil
 })
}
```

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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`
```

```
// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//             on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//             is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

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```
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// OtherLicense is an Other License Information section of an SPDX Document
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
 optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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(By Douglas Crockford <douglas@crockford.com>)

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*/
```

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```
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1.5389 python 3.10.12-1~22.04.11

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
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In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
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2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.2 2.1.1 2002 PSF yes
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 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

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 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

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 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`
```

```
//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.1 of the spec.
type OtherLicense struct {
 // 6.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

 // 6.4: License Cross Reference
 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 6.5:
 License Comment
 // Cardinality: optional, one
 LicenseComment string `json:"comment,omitempty"`
}
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```
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 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 10.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

 // 10.4: License Cross Reference
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 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
 optional, one
 LicenseComment string `json:"comment,omitempty"`
}
```

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-
go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go

https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go
Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.5391 grpc-gateway 2.27.1

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Kubeval - Validate Kubernetes configuration files

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1.5397 kubernetes-client 0.34.0-rc.2

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1.5398 grpc-go 1.75.0

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1.5402 kubernetes-cliruntime 0.34.0-rc.2

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}
```

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package spec

import (
 "encoding/json"

 "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 LicenseProps
 VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
}

// UnmarshalJSON
 hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
```

```
 if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
  return err
 }
 return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
 b1, err := json.Marshal(l.LicenseProps)
 if err != nil {
  return nil, err
 }
 b2, err := json.Marshal(l.VendorExtensible)
 if err != nil {
  return nil, err
 }
 return swag.ConcatJSON(b1, b2), nil
}
```

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Kubeval - Validate Kubernetes configuration files

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/rest/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
```

```
 Encoding    *string  `json:"encoding,omitempty"`
 License
     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID         *string   `json:"spdx_id,omitempty"`
 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
 Implementation *string   `json:"implementation,omitempty"`
 Permissions    *[]string `json:"permissions,omitempty"`
 Conditions     *[]string `json:"conditions,omitempty"`
 Limitations    *[]string `json:"limitations,omitempty"`
 Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/rest/licenses/licenses#get-all-commonly-used-licenses
//
//meta:operation
 GET /licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }
```

```
 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/rest/licenses/licenses#get-a-license
//
//meta:operation GET /licenses/{license}
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }

 license := new(License)
 resp, err := s.client.Do(ctx, req, license)
 if err != nil {
  return nil, resp, err
 }

 return license, resp, nil
}
//go:build go1.10
// +build go1.10

package pq

import (
 "context"
 "database/sql/driver"
)

// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
 return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
```

```
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
 c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
 on it.
type NoticeHandlerConnector struct {
 driver.Connector
 noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
 c, err := n.Connector.Connect(ctx)
 if err == nil {
  SetNoticeHandler(c, n.noticeHandler)
 }
 return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  return c.noticeHandler
 }
 return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
 setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
 if c, ok := c.(*NoticeHandlerConnector); ok {
  c.noticeHandler = handler
  return c
 }
```

```
 return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
```

```
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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==========
The common/types/pb/equal.go modification of proto.Equal logic
==========
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```
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//
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 Name string `json:"name,omitempty"`
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========

The common/types/pb/equal.go modification of proto.Equal logic

==========

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.5412 protobuf-go 1.36.8

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.5416 github 74.0.0

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package github

import (
 "context"
 "fmt"
 "net/http"
 "testing"

 "github.com/google/go-cmp/cmp"
)

func TestRepositoryLicense_Marshal(t *testing.T) {
 t.Parallel()
 testJSONMarshal(t, &RepositoryLicense{}, "{}")

 rl := &RepositoryLicense{
  Name:        Ptr("n"),
  Path:        Ptr("p"),
  SHA:         Ptr("s"),
  Size:        Ptr(1),
  URL:         Ptr("u"),
  HTMLURL:     Ptr("h"),
  GitURL:      Ptr("g"),
  DownloadURL: Ptr("d"),
  Type:        Ptr("t"),
  Content:     Ptr("c"),
```

```
 Encoding:    Ptr("e"),
 License: &License{
  Key:           Ptr("k"),
  Name:          Ptr("n"),
  URL:           Ptr("u"),
  SPDXID:        Ptr("s"),
  HTMLURL:       Ptr("h"),
  Featured:      Ptr(true),
  Description:   Ptr("d"),
  Implementation: Ptr("i"),
  Permissions:   &[]string{"p"},
  Conditions:    &[]string{"c"},
  Limitations:
   &[]string{"l"},
  Body:          Ptr("b"),
 },
}
want := `{
 "name": "n",
 "path": "p",
 "sha": "s",
 "size": 1,
 "url": "u",
 "html_url": "h",
 "git_url": "g",
 "download_url": "d",
 "type": "t",
 "content": "c",
 "encoding": "e",
 "license": {
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
  "limitations": ["l"],
  "body": "b"
 }
}`
testJSONMarshal(t, rl, want)
}

func TestLicense_Marshal(t *testing.T) {
```

```
 t.Parallel()
 testJSONMarshal(t, &License{}, "{}")

 l := &License{
  Key:            Ptr("k"),
  Name:           Ptr("n"),
  URL:            Ptr("u"),
  SPDXID:         Ptr("s"),
  HTMLURL:        Ptr("h"),
  Featured:       Ptr(true),
  Description:    Ptr("d"),
  Implementation: Ptr("i"),
  Permissions:    &[]string{"p"},
  Conditions:     &[]string{"c"},
  Limitations:    &[]string{"l"},
  Body:
          Ptr("b"),
 }
 want := `{
  "key": "k",
  "name": "n",
  "url": "u",
  "spdx_id": "s",
  "html_url": "h",
  "featured": true,
  "description": "d",
  "implementation": "i",
  "permissions": ["p"],
  "conditions": ["c"],
  "limitations": ["l"],
  "body": "b"
 }`
 testJSONMarshal(t, l, want)
}

func TestLicensesService_List(t *testing.T) {
 t.Parallel()
 client, mux, _ := setup(t)

 mux.HandleFunc("/licenses", func(w http.ResponseWriter, r *http.Request) {
  testMethod(t, r, "GET")
  fmt.Fprint(w,
`[{"key":"mit","name":"MIT","spdx_id":"MIT","url":"https://api.github.com/licenses/mit","featured":true}]`)
 })

 ctx := context.Background()
 licenses, _, err := client.Licenses.List(ctx)
 if err != nil {
```

```
 t.Errorf("Licenses.List returned error: %v", err)
}

want := []*License{{
 Key:      Ptr("mit"),
 Name:     Ptr("MIT"),
 SPDXID:   Ptr("MIT"),
 URL:      Ptr("https://api.github.com/licenses/mit"),
 Featured: Ptr(true),
}}
if !cmp.Equal(licenses, want)
{
 t.Errorf("Licenses.List returned %+v, want %+v", licenses, want)
}

const methodName = "List"
testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
 got, resp, err := client.Licenses.List(ctx)
 if got != nil {
  t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
 }
 return resp, err
})
}

func TestLicensesService_Get(t *testing.T) {
t.Parallel()
client, mux, _ := setup(t)

mux.HandleFunc("/licenses/mit", func(w http.ResponseWriter, r *http.Request) {
 testMethod(t, r, "GET")
 fmt.Fprint(w, `{"key":"mit","name":"MIT"}`)
})

ctx := context.Background()
license, _, err := client.Licenses.Get(ctx, "mit")
if err != nil {
 t.Errorf("Licenses.Get returned error: %v", err)
}

want := &License{Key: Ptr("mit"), Name: Ptr("MIT")}
if !cmp.Equal(license, want) {
 t.Errorf("Licenses.Get returned %+v, want %+v", license, want)
}

const methodName = "Get"
testBadOptions(t, methodName, func() (err error) {
 _, _, err = client.Licenses.Get(ctx,
```

```
 "\n")
  return err
 })

 testNewRequestAndDoFailure(t, methodName, client, func() (*Response, error) {
  got, resp, err := client.Licenses.Get(ctx, "mit")
  if got != nil {
   t.Errorf("testNewRequestAndDoFailure %v = %#v, want nil", methodName, got)
  }
  return resp, err
 })
}

func TestLicensesService_Get_invalidTemplate(t *testing.T) {
 t.Parallel()
 client, _, _ := setup(t)

 ctx := context.Background()
 _, _, err := client.Licenses.Get(ctx, "%")
 testURLParseError(t, err)
}
```

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package github

import (
 "context"
 "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://docs.github.com/rest/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
 Name *string `json:"name,omitempty"`
 Path *string `json:"path,omitempty"`

 SHA         *string  `json:"sha,omitempty"`
 Size        *int     `json:"size,omitempty"`
 URL         *string  `json:"url,omitempty"`
 HTMLURL     *string  `json:"html_url,omitempty"`
 GitURL      *string  `json:"git_url,omitempty"`
 DownloadURL *string  `json:"download_url,omitempty"`
 Type        *string  `json:"type,omitempty"`
 Content     *string  `json:"content,omitempty"`
 Encoding    *string  `json:"encoding,omitempty"`
 License
     *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
 return Stringify(l)
}

// License represents an open source license.
type License struct {
 Key  *string `json:"key,omitempty"`
 Name *string `json:"name,omitempty"`
 URL  *string `json:"url,omitempty"`

 SPDXID         *string   `json:"spdx_id,omitempty"`
```

```
 HTMLURL        *string   `json:"html_url,omitempty"`
 Featured       *bool     `json:"featured,omitempty"`
 Description    *string   `json:"description,omitempty"`
 Implementation *string   `json:"implementation,omitempty"`
 Permissions    *[]string `json:"permissions,omitempty"`
 Conditions     *[]string `json:"conditions,omitempty"`
 Limitations    *[]string `json:"limitations,omitempty"`
 Body           *string   `json:"body,omitempty"`
}

func (l License) String() string {
 return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://docs.github.com/rest/licenses/licenses#get-all-commonly-used-licenses
//
//meta:operation
 GET /licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
 req, err := s.client.NewRequest("GET", "licenses", nil)
 if err != nil {
  return nil, nil, err
 }

 var licenses []*License
 resp, err := s.client.Do(ctx, req, &licenses)
 if err != nil {
  return nil, resp, err
 }

 return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://docs.github.com/rest/licenses/licenses#get-a-license
//
//meta:operation GET /licenses/{license}
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
 u := fmt.Sprintf("licenses/%s", licenseName)

 req, err := s.client.NewRequest("GET", u, nil)
 if err != nil {
  return nil, nil, err
 }
```

```
license := new(License)
resp, err := s.client.Do(ctx, req, license)
if err != nil {
 return nil, resp, err
}

return license, resp, nil
}
```

1.5417 kubernetes-component-base 0.34.0-rc.2

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1.5418 github.com/cert-manager/cmctl/v2 0.0.0-20250711115830-29b59b934c5a

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1.5419 kubernetes-kubectl 0.34.0-rc.2

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1.5420 nodeexporter 0.0.0-20250401151414-f2ec547b49af

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```
name: bsd

on:
 push:
   branches:
     - master
 pull_request:
   branches:
     - master

permissions:
 contents: read

env:
 GNU_TAR_VERSION: "1.35"
 GO_VERSION_DRAGONFLY: "1.23.3"
 GO_VERSION_FREEBSD: "123"
 GO_VERSION_NETBSD: "1.23.3"
 GO_VERSION_OPENBSD: "1.23.1"
 GO_VERSION_SOLARIS: "1.23.3"

# To spin up one of the VMs below, see the "Debug Shell" section here: https://github.com/vmactions
jobs:
 test_freebsd:
```

```
  name: Run end-to-end tests on FreeBSD
  runs-on: ubuntu-latest
  steps:
    - name: Checkout the repository
      uses: actions/checkout@v4
    - name: test-e2e
      uses: vmactions/freebsd-vm@v1
      with:
        copyback: false
        envs: 'GO_VERSION_FREEBSD GNU_TAR_VERSION'
        usesh: true
        prepare: |
          pkg update -f
          pkg install -y \
            bash \
            git \
            gmake \
            gnugrep \
            go${GO_VERSION_FREEBSD} \
            gsed \

gtar \
            python \
            wget
        run: |
          echo "::group::Setup prerequisites"
          set -eu
          mkdir bin
          ln -s $(which go${GO_VERSION_FREEBSD}) $(pwd)/bin/go
          ln -s $(which ggrep) $(pwd)/bin/grep
          ln -s $(which gmake) $(pwd)/bin/make
          ln -s $(which gsed) $(pwd)/bin/sed
          ln -s $(which gtar) $(pwd)/bin/tar
          export PATH=$(pwd)/bin:$PATH
          echo "::endgroup::"

          echo "::group::Print environment information"
          uname -a
          echo "GOOS: $(go env GOOS)"
          echo "GOARCH: $(go env GOARCH)"
          echo "::endgroup::"

          echo "::group::Run End-to-End Tests"
          git config --global --add safe.directory $(pwd)
          gmake test-e2e
          echo "::endgroup::"

test_openbsd:
```

```
  name: Run end-to-end tests on OpenBSD
  runs-on: ubuntu-latest
  steps:
    - name: Checkout the repository
      uses:
actions/checkout@v4
    - name: test-e2e
      uses: vmactions/openbsd-vm@v1
      with:
        copyback: false
        envs: 'GO_VERSION_OPENBSD GNU_TAR_VERSION'
        usesh: true
        prepare: |
          pkg_add -u
          pkg_add \
            bash \
            ggrep \
            git \
            gmake \
            go-${GO_VERSION_OPENBSD} \
            gsed \
            gtar-${GNU_TAR_VERSION}p0-static \
            python \
            wget
        run: |
          echo "::group::Setup prerequisites"
          set -eu
          mkdir bin
          ln -s $(which ggrep) $(pwd)/bin/grep
          ln -s $(which gmake) $(pwd)/bin/make
          ln -s $(which gsed) $(pwd)/bin/sed
          ln -s $(which gtar) $(pwd)/bin/tar
          export PATH=$(pwd)/bin:$PATH
          echo "::endgroup::"

          echo "::group::Print environment information"
          uname -a
          echo "GOOS: $(go env GOOS)"

      echo "GOARCH: $(go env GOARCH)"
          echo "::endgroup::"

          echo "::group::Run End-to-End Tests"
          git config --global --add safe.directory $(pwd)
          make test-e2e
          echo "::endgroup::"

test_netbsd:
```

```
  name: Run end-to-end tests on NetBSD
  runs-on: ubuntu-latest
  steps:
    - name: Checkout the repository
      uses: actions/checkout@v4
    - name: test-e2e
      uses: vmactions/netbsd-vm@v1
      with:
        copyback: false
        envs: 'GO_VERSION_NETBSD GNU_TAR_VERSION'
        usesh: true
        prepare: |
          /usr/sbin/pkg_add -u
          /usr/sbin/pkg_add \
            git \
            gmake \
            grep \
            gsed \
            gtar-base-${GNU_TAR_VERSION}\
            python312 \
            wget
        run: |
          echo "::group::Setup prerequisites"
          set -eu
          mkdir bin
          GOGZ="go${GO_VERSION_NETBSD}.netbsd-amd64.tar.gz"
           wget https://go.dev/dl/${GOGZ}
          gtar xzf ${GOGZ}
          ln -s $(pwd)/go/bin/go $(pwd)/bin/go
          ln -s $(which ggrep) $(pwd)/bin/grep
          ln -s $(which gmake) $(pwd)/bin/make
          ln -s $(which gsed) $(pwd)/bin/sed
          ln -s $(which gtar) $(pwd)/bin/tar
          export PATH=$(pwd)/bin:$PATH
          echo "::endgroup::"

          echo "::group::Print environment information"
          uname -a
          echo "GOOS: $(go env GOOS)"
          echo "GOARCH: $(go env GOARCH)"
          echo "::endgroup::"

          echo "::group::Run End-to-End Tests"
          git config --global --add safe.directory $(pwd)
          make test-e2e
          echo "::endgroup::"

test_dragonfly:
```

```
  name: Run end-to-end tests on DragonFly
  runs-on: ubuntu-latest
  steps:
    - name: Checkout the repository
      uses: actions/checkout@v4
    - name: test-e2e
      uses: vmactions/dragonflybsd-vm@v1

    with:
        copyback: false
        envs: 'GO_VERSION_DRAGONFLY'
        usesh: true
        prepare: |
          pkg update && pkg upgrade -y
          pkg install -y \
            bash \
            git \
            gmake \
            gnugrep \
            gsed \
            gtar \
            python3 \
            wget
        run: |
          echo "::group::Setup prerequisites"
          set -eu
          mkdir bin
          GOGZ="go${GO_VERSION_DRAGONFLY}.dragonfly-amd64.tar.gz"
          wget https://go.dev/dl/${GOGZ}
          gtar xzf ${GOGZ}
          ln -s $(pwd)/go/bin/go $(pwd)/bin/go
          ln -s $(which ggrep) $(pwd)/bin/grep
          ln -s $(which gmake) $(pwd)/bin/make
          ln -s $(which gsed) $(pwd)/bin/sed
          ln -s $(which gtar) $(pwd)/bin/tar
          ln -s $(which python3) $(pwd)/bin/python
          export PATH=$(pwd)/bin:$PATH
          echo "::endgroup::"

          echo "::group::Print
environment information"
          uname -a
          echo "GOOS: $(go env GOOS)"
          echo "GOARCH: $(go env GOARCH)"
          echo "::endgroup::"

          echo "::group::Run End-to-End Tests"
          git config --global --add safe.directory $(pwd)
```

```
          gmake test-e2e
          echo "::endgroup::"

test_solaris:
  name: Run end-to-end tests on Solaris
  runs-on: ubuntu-latest
  steps:
    - name: Checkout the repository
      uses: actions/checkout@v4
    - name: test-e2e
      uses: vmactions/solaris-vm@v1
      with:
        copyback: false
        envs: 'GO_VERSION_SOLARIS'
        usesh: true
        prepare: |
          pkg update
          pkg install \
            bash \
            curl \
            gcc \
            git \
            gnu-grep \
            gnu-make \
            gnu-sed \
            gnu-tar
        run: |
          echo "::group::Setup prerequisites"
          set -eu
           mkdir bin
          GOGZ="go${GO_VERSION_SOLARIS}.solaris-amd64.tar.gz"
          wget https://go.dev/dl/${GOGZ}
          gtar xzf ${GOGZ}
          ln -s $(pwd)/go/bin/go $(pwd)/bin/go
          ln -s $(which ggrep) $(pwd)/bin/grep
          ln -s $(which gmake) $(pwd)/bin/make
          ln -s $(which gsed) $(pwd)/bin/sed
          ln -s $(which gtar) $(pwd)/bin/tar
          export PATH=$(pwd)/bin:$PATH

          echo ">> building promu as it is not shipped for Solaris"
          git clone https://github.com/prometheus/promu.git
          cd promu
          go build .
          cd -

          mkdir -p $(go env GOPATH)/bin
          ln -s $(pwd)/promu/promu $(go env GOPATH)/bin/promu
```

```
        export PATH=$(go env GOPATH)/bin:$PATH
        echo "::endgroup::"

        echo "::group::Print environment information"
        uname -a
        echo "GOOS: $(go env GOOS)"
        echo "GOARCH: $(go env
GOARCH)"
        echo "::endgroup::"

        echo "::group::Run End-to-End Tests"
        git config --global --add safe.directory $(pwd)
        make test-e2e
        echo "::endgroup::"

test_macos:
  name: Run end-to-end tests on macOS
  runs-on: macos-latest
  steps:
    - name: Checkout the repository
      uses: actions/checkout@v4
    - name: Install dependencies
      run: |
        brew install \
          bash \
          curl \
          git \
          grep \
          make \
          gnu-sed \
          gnu-tar \
          go \
          python3
    - name: test-e2e
      run: |
        echo "::group::Setup prerequisites"
        set -eu
        mkdir bin
        ln -s $(which ggrep) $(pwd)/bin/grep
        ln -s $(which gmake) $(pwd)/bin/make
        ln -s $(which gsed) $(pwd)/bin/sed
        ln -s $(which gtar) $(pwd)/bin/tar
        export PATH=$(pwd)/bin:$PATH
        echo "::endgroup::"

         echo "::group::Print environment information"
        uname -a
        echo "GOOS: $(go env GOOS)"
```

```
echo "GOARCH: $(go env GOARCH)"
echo "::endgroup::"

echo "::group::Run End-to-End Tests"
git config --global --add safe.directory $(pwd)
make test-e2e
echo "::endgroup::"
```

1.5421 python 3.12.3-1ubuntu0.8

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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.5422 mergo 1.0.2

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```
{
  "import": "./thing.json",
  "fields": {
      "site": "string",
      "author": "updater"
  }
}
```

1.5423 golang 1.24.7

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```
package copyright

import (
 "bytes"
 "internal/testenv"
 "io"
 "io/fs"
 "os"
 "path/filepath"
 "testing"
)

var copyright = []byte("Copyright")

var permitted = [][]byte{
 []byte("// Code generated by "),
```

```
 []byte("// Code generated from "),
 []byte("// Created by cgo -cdefs"),
 []byte("// DO NOT EDIT\n// generated by:"),
 []byte("// Empty assembly file"),
 []byte("// Generated using cgo"),
 []byte("// Original source:\n//\thttp://www.zorinaq.com/papers/md5-amd64.html"), // public domain crypto/md5
 []byte("// created by cgo -cdefs"),
 []byte("// go run mkasm.go"),
 []byte("// mkerrors"),
 []byte("// mksys"),
 []byte("// run\n// Code generated by"), // cmd/compile/internal/test/constFold_test.go
}

func TestCopyright(t *testing.T) {
 buf := make([]byte, 2048)
 filepath.WalkDir(filepath.Join(testenv.GOROOT(t), "src"), func(path string,
 d fs.DirEntry, err error) error {
  if d.IsDir() && (d.Name() == "testdata" || d.Name() == "vendor") {
   return filepath.SkipDir
  }
  switch filepath.Ext(d.Name()) {
  default:
   return nil
  case ".s", ".go":
   // check
  }

  f, err := os.Open(path)
  if err != nil {
   t.Error(err)
   return nil
  }
  defer f.Close()
  n, err := f.Read(buf)
  if err != nil && err != io.EOF {
   t.Error(err)
   return nil
  }
  b := buf[:n]
  if bytes.Contains(b, copyright) {
   return nil
  }
  for _, ok := range permitted {
   if bytes.HasPrefix(b, ok) {
    return nil
   }
  }
  t.Errorf("%s: missing copyright notice", path)
```

```
  return nil
 })
}
```

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1.5426 kubernetes-component-base 0.33.4

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1.5427 jsonschema-specifications 2025.9.1

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1.5428 postgre-sql 16.10-0ubuntu0.24.04.1

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1.5429 coreutils 9.4-3ubuntu6.1

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#ifndef _BASENAME_LGPL_H
#define _BASENAME_LGPL_H

/* This file uses _GL_ATTRIBUTE_PURE.  */
#if !_GL_CONFIG_H_INCLUDED
#error "Please include config.h first."
#endif

#include <stddef.h>

#ifndef
 DOUBLE_SLASH_IS_DISTINCT_ROOT
# define DOUBLE_SLASH_IS_DISTINCT_ROOT 0
#endif
```

```
#ifdef __cplusplus
extern "C" {
#endif


/* Return the address of the last file name component of FILENAME.
  If FILENAME has some trailing slash(es), they are considered to be
  part of the last component.
  If FILENAME has no relative file name components because it is a file
  system root, return the empty string.
  Examples:
          FILENAME      RESULT
          "foo.c"       "foo.c"
          "foo/bar.c"   "bar.c"
          "/foo/bar.c"  "bar.c"
          "foo/bar/"    "bar/"
          "foo/bar//"   "bar//"
          "/"           ""
          "//"          ""
          ""            ""
  The return value is a tail of the given FILENAME; do NOT free() it!  */

/* This function was traditionally called 'basename', but we avoid this
  function name because
    * Various platforms have different functions in their libc.
      In particular, the glibc basename(),
 defined in <string.h>, does
      not consider trailing slashes to be part of the component:
          FILENAME      RESULT
          "foo/bar/"    ""
          "foo/bar//"   ""
    * The 'basename' command eliminates trailing slashes and for a root
      produces a non-empty result:
          FILENAME      RESULT
          "foo/bar/"    "bar"
          "foo/bar//"   "bar"
          "/"           "/"
          "//"          "/"
*/
extern char *last_component (char const *filename) _GL_ATTRIBUTE_PURE;

/* Return the length of the basename FILENAME.
  Typically FILENAME is the value returned by base_name or last_component.
  Act like strlen (FILENAME), except omit all trailing slashes.  */
extern size_t base_len (char const *filename) _GL_ATTRIBUTE_PURE;


#ifdef __cplusplus
```

```
} /* extern "C" */
#endif

#endif /* _BASENAME_LGPL_H */
```

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1.5430 pycparser 2.23

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pycparser -- A C parser in Python

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1.5431 mergo 1.0.2

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```
{
  "import": "./thing.json",
  "fields": {
    "site": "string",
    "author": "updater"
  }
}
```

1.5432 s3transfer 0.14.0

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1.5433 mute-stream 2.0.0

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1.5434 glob 10.4.5

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1.5435 npm-install-checks 7.1.1

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1.5436 ignore-walk 7.0.0

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1.5437 spdx-expression-parse 4.0.0

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1.5438 libxml2 2.9.14+dfsg-1.3ubuntu3.5

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1.5439 libxml2 2.9.13+dfsg-1ubuntu0.9

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1.5440 go-autorest-autorest-to 0.4.0

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1.5441 pynacl 1.6.0

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1.5442 openstacksdk 4.7.1

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```
openstack/
  connection.py
  resource.py
  compute/
     compute_service.py
     v2/
        server.py
        _proxy.py
  tests/
     compute/
        v2/
           test_server.py
clouds:
 devstack:
  auth:
    auth_url: http://xxx.xxx.xxx.xxx/identity
    password: password
    project_domain_id: default
    project_name: demo
    user_domain_id: default
    username: demo
  identity_api_version: '3'
  region_name: RegionOne
  volume_api_version: '3'
 devstack-admin:
  auth:
    auth_url: http://xxx.xxx.xxx.xxx/identity
    password: password
```

```
    project_domain_id: default
    project_name: admin
    user_domain_id: default
    username: admin
  identity_api_version: '3'
  region_name: RegionOne
  volume_api_version: '3'
devstack-alt:
  auth:
    auth_url: http://xxx.xxx.xxx.xxx/identity
    password: password
    project_domain_id: default
    project_name: alt_demo
    user_domain_id: default
    username: alt_demo
  identity_api_version: '3'
  region_name: RegionOne
  volume_api_version: '3'
example:
image_name: cirros-0.5.2-x86_64-disk
flavor_name: m1.small
```

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1.5443 jsimonetti-rtnetlink 2.0.5

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1.5444 openssh 9.6p1-3ubuntu13.14

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
```

```
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

#include <sys/types.h>
#ifdef HAVE_POLL_H
# include <poll.h>
#elif HAVE_SYS_POLL_H
# include <sys/poll.h>
#endif

#ifndef HAVE_STRUCT_POLLFD_FD
typedef struct pollfd {
 int fd;
 short events;
```

```
 short revents;
} pollfd_t;

#ifndef POLLIN
# define POLLIN  0x0001
#endif
#ifndef POLLPRI
# define POLLPRI 0x0002
#endif
#ifndef POLLOUT
# define POLLOUT 0x0004
#endif
#ifndef POLLERR
# define POLLERR 0x0008
#endif
#ifndef POLLHUP
# define POLLHUP 0x0010
#endif
#ifndef POLLNVAL
# define POLLNVAL 0x0020
#endif

#if 0
/* the following are
 currently not implemented */
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define INFTIM  (-1) /* not standard */
#endif /* !HAVE_STRUCT_POLLFD_FD */

#ifndef HAVE_NFDS_T
typedef unsigned int nfds_t;
#endif

#ifndef HAVE_POLL
int   poll(struct pollfd *, nfds_t, int);
#endif

#ifndef HAVE_PPOLL
int   ppoll(struct pollfd *, nfds_t, const struct timespec *, const sigset_t *);
#endif

#endif /* !_COMPAT_POLL_H_ */
```

```
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*/

#ifndef _BSD_MISC_H
#define _BSD_MISC_H

#include "includes.h"

char *ssh_get_progname(char *);
int seed_from_prngd(unsigned char *, size_t);

#ifndef HAVE_SETSID
#define setsid() setpgrp(0, getpid())
#endif
 /* !HAVE_SETSID */

#ifndef HAVE_SETENV
int setenv(const char *, const char *, int);
#endif /* !HAVE_SETENV */

#ifndef HAVE_SETLOGIN
int setlogin(const char *);
#endif /* !HAVE_SETLOGIN */

#ifndef HAVE_INNETGR
int innetgr(const char *, const char *, const char *, const char *);
#endif /* HAVE_INNETGR */

#if !defined(HAVE_SETEUID) && defined(HAVE_SETREUID)
int seteuid(uid_t);
#endif /* !defined(HAVE_SETEUID) && defined(HAVE_SETREUID) */

#if !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID)
int setegid(uid_t);
#endif /* !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID) */
```

```
#if !defined(HAVE_STRERROR) && defined(HAVE_SYS_ERRLIST) && defined(HAVE_SYS_NERR)
const char *strerror(int);
#endif

#if !defined(HAVE_SETLINEBUF)
#define setlinebuf(a) (setvbuf((a), NULL, _IOLBF, 0))
#endif

#ifndef HAVE_UTIMES
#ifndef HAVE_STRUCT_TIMEVAL
struct timeval {
 long tv_sec;
 long tv_usec;
}
#endif /* HAVE_STRUCT_TIMEVAL */

int utimes(const char *, struct timeval *);
#endif /* HAVE_UTIMES */

#ifndef
 AT_FDCWD
# define AT_FDCWD (-2)
#endif

#ifndef HAVE_FCHMODAT
int fchmodat(int, const char *, mode_t, int);
#endif

#ifndef HAVE_FCHOWNAT
int fchownat(int, const char *, uid_t, gid_t, int);
#endif

#ifndef HAVE_TRUNCATE
int truncate (const char *, off_t);
#endif /* HAVE_TRUNCATE */

#ifndef HAVE_STRUCT_TIMESPEC
struct timespec {
 time_t tv_sec;
 long tv_nsec;
};
#endif /* !HAVE_STRUCT_TIMESPEC */

#if !defined(HAVE_NANOSLEEP) && !defined(HAVE_NSLEEP)
# include <time.h>
int nanosleep(const struct timespec *, struct timespec *);
#endif
```

```
#ifndef HAVE_UTIMENSAT
# include <time.h>
/* start with the high bits and work down to minimise risk of overlap */
# ifndef AT_SYMLINK_NOFOLLOW
#  define AT_SYMLINK_NOFOLLOW 0x80000000
# endif
int utimensat(int, const char *, const struct timespec[2], int);
#endif /* !HAVE_UTIMENSAT */

#ifndef HAVE_USLEEP
int usleep(unsigned int useconds);
#endif

#ifndef HAVE_TCGETPGRP
pid_t tcgetpgrp(int);
#endif

#ifndef HAVE_TCSENDBREAK
int tcsendbreak(int, int);
#endif

#ifndef
 HAVE_UNSETENV
int unsetenv(const char *);
#endif

#ifndef HAVE_ISBLANK
int isblank(int);
#endif

#ifndef HAVE_GETPGID
pid_t getpgid(pid_t);
#endif

#ifndef HAVE_PSELECT
int pselect(int, fd_set *, fd_set *, fd_set *, const struct timespec *,
   const sigset_t *);
#endif

#ifndef HAVE_ENDGRENT
# define endgrent() do { } while(0)
#endif

#ifndef HAVE_KRB5_GET_ERROR_MESSAGE
# define krb5_get_error_message krb5_get_err_text
#endif
```

```
#ifndef HAVE_KRB5_FREE_ERROR_MESSAGE
# define krb5_free_error_message(a,b) do { } while(0)
#endif

#ifndef HAVE_PLEDGE
int pledge(const char *promises, const char *paths[]);
#endif

/* bsd-err.h */
#ifndef HAVE_ERR
void err(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_ERRX
void errx(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_WARN
void warn(const char *, ...) __attribute__((format(printf, 1, 2)));
#endif

#ifndef HAVE_LLABS
long long llabs(long long);
#endif

#if defined(HAVE_DECL_BZERO)
 && HAVE_DECL_BZERO == 0
void bzero(void *, size_t);
#endif

#ifndef HAVE_RAISE
int raise(int);
#endif

#ifndef HAVE_GETSID
pid_t getsid(pid_t);
#endif

#ifndef HAVE_FLOCK
# define LOCK_SH  0x01
# define LOCK_EX  0x02
# define LOCK_NB  0x04
# define LOCK_UN  0x08
int flock(int, int);
#endif

#ifdef FFLUSH_NULL_BUG
# define fflush(x) (_ssh_compat_fflush(x))
#endif
```

```
#ifndef HAVE_LOCALTIME_R
struct tm *localtime_r(const time_t *, struct tm *);
#endif

#ifndef HAVE_REALPATH
#define realpath(x, y) (sftp_realpath((x), (y)))
#endif

#endif /* _BSD_MISC_H */
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#include "includes.h"

#if !defined(HAVE_STATVFS) || !defined(HAVE_FSTATVFS)

#include <sys/types.h>

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
#ifdef HAVE_SYS_STATFS_H
#include <sys/statfs.h>
#endif
#ifdef
 HAVE_SYS_VFS_H
#include <sys/vfs.h>
#endif

#ifndef HAVE_FSBLKCNT_T
typedef unsigned long fsblkcnt_t;
#endif
#ifndef HAVE_FSFILCNT_T
typedef unsigned long fsfilcnt_t;
#endif
```

```
#ifndef ST_RDONLY
#define ST_RDONLY 1
#endif
#ifndef ST_NOSUID
#define ST_NOSUID 2
#endif

 /* as defined in IEEE Std 1003.1, 2004 Edition */
struct statvfs {
 unsigned long f_bsize; /* File system block size. */
 unsigned long f_frsize; /* Fundamental file system block size. */
 fsblkcnt_t f_blocks; /* Total number of blocks on file system in */
   /* units of f_frsize. */
 fsblkcnt_t    f_bfree; /* Total number of free blocks. */
 fsblkcnt_t    f_bavail; /* Number of free blocks available to  */
   /* non-privileged process.  */
 fsfilcnt_t    f_files; /* Total number of file serial numbers. */
 fsfilcnt_t    f_ffree; /* Total number of free file serial numbers. */
 fsfilcnt_t    f_favail; /* Number of file serial numbers available to */
   /* non-privileged process. */
 unsigned long f_fsid; /*
 File system ID. */
 unsigned long f_flag; /* BBit mask of f_flag values. */
 unsigned long f_namemax;/*  Maximum filename length. */
};
#endif

#ifndef HAVE_STATVFS
int statvfs(const char *, struct statvfs *);
#endif

#ifndef HAVE_FSTATVFS
int fstatvfs(int, struct statvfs *);
#endif
```

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 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
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#ifndef _BSD_SIGNAL_H
#define _BSD_SIGNAL_H

#include "includes.h"

#include <signal.h>

#ifndef _NSIG
# ifdef NSIG
#  define _NSIG NSIG
# else
#  define _NSIG 128
# endif
#endif

#if !defined(HAVE_STRSIGNAL)
char
 *strsignal(int);
#endif

#endif /* _BSD_SIGNAL_H */
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* Created: Sat Sep 02 12:17:00 2000 cv
*
* This file contains functions for forcing opened file descriptors to
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*/

#ifndef _BSD_CYGWIN_UTIL_H
#define _BSD_CYGWIN_UTIL_H

#ifdef HAVE_CYGWIN

#undef ERROR

/* Avoid including windows headers. */
typedef void *HANDLE;
#define INVALID_HANDLE_VALUE ((HANDLE) -1)
#define DNLEN 16
#define UNLEN 256

/* Cygwin functions for which declarations are only available when including
  windows headers, so we have to define them here explicitly. */
extern HANDLE cygwin_logon_user (const struct passwd *, const char *);
extern void cygwin_set_impersonation_token (const HANDLE);

#include
 <sys/cygwin.h>
#include <io.h>

#define CYGWIN_SSH_PRIVSEP_USER (cygwin_ssh_privsep_user())
const char *cygwin_ssh_privsep_user();

int binary_open(const char *, int , ...);
int check_ntsec(const char *);
char **fetch_windows_environment(void);
void free_windows_environment(char **);
int cygwin_ug_match_pattern_list(const char *, const char *);

#ifndef NO_BINARY_OPEN
#define open binary_open
#endif

#endif /* HAVE_CYGWIN */

#endif /* _BSD_CYGWIN_UTIL_H */
```

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#ifndef _NEXT_POSIX_H
#define _NEXT_POSIX_H

#ifdef HAVE_NEXT
#include <sys/dir.h>

/* NGROUPS_MAX is behind -lposix.  Use the BSD version which is NGROUPS */
#undef NGROUPS_MAX
#define NGROUPS_MAX NGROUPS

/* NeXT's readdir() is BSD (struct direct) not POSIX (struct dirent) */
#define dirent direct

/* Swap out NeXT's BSD wait() for a more POSIX compliant one */
pid_t posix_wait(int *);
#define wait(a) posix_wait(a)

/* #ifdef wrapped functions that need defining for clean compiling */
pid_t getppid(void);
void vhangup(void);
int innetgr(const char *, const char *, const char *, const char *);
```

```
/* TERMCAP */
int tcgetattr(int, struct termios *);
int tcsetattr(int, int,
 const struct termios *);
int tcsetpgrp(int, pid_t);
speed_t cfgetospeed(const struct termios *);
speed_t cfgetispeed(const struct termios *);
int cfsetospeed(struct termios *, int);
int cfsetispeed(struct termios *, int);
#endif /* HAVE_NEXT */
#endif /* _NEXT_POSIX_H */
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.5445 asphaltt-mybtf 0.0.0-20250708022622-be6f548674b2

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1.5448 cilium-pwru 1.0.10

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1.5451 libxml2 2.9.13+dfsg-1ubuntu0.9

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1.5452 kubernetes-apimachinery 0.33.5

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1.5457 axios 1.12.2

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1.5460 kubernetes-yaml 1.6.0

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1.5464 clock 1.37.0

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1.5465 bbolt 1.4.3

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1.5466 x-crypto 0.41.0

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1.5467 x-net 0.43.0

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1.5468 kube-openapi 0.0.0-20250710124328-f3f2b991d03b

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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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# visible at https://tip.golang.org/CONTRIBUTORS.
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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
 license := License{Name: "the name", URL: "the url"}
 const licenseJSON = `{"name":"the name","url":"the url"}`
 const licenseYAML = "name: the name\nurl: the url\n"

 assertSerializeJSON(t, license, licenseJSON)
 assertParsesJSON(t, licenseJSON, license)
}
```

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1.5469 structured-merge-diff 6.3.0

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1.5470 opentelemetry-collector-pipeline 0.128.0

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Releasing

Release Process

This release process covers the steps to release new major and minor versions for the `opentelemetry-collector` with Kyma-specific customizations.

1. Verify that all issues in the [GitHub milestone](https://github.com/kyma-project/opentelemetry-collector-components/milestones) related to the version are closed.
2. Close the milestone.

3. Create a new [GitHub milestone](https://github.com/kyma-project/opentelemetry-collector-components/milestones) for the next version.

4. In the `opentelemetry-collector-components` repository, create a release branch.
  The name of this branch must follow the `release-x.y` pattern, such as `release-1.0`. As opentelemetry-collector follows the release schedule of the `telemetry-manager` component, the release branch should also have the same name as the `telemetry-manager` release branch.

  ```bash
  git fetch upstream
  git checkout --no-track -b {RELEASE_BRANCH} upstream/main
  git push upstream {RELEASE_BRANCH}
  ```

5. In the `opentelemetry-collector-components/{RELEASE_BRANCH}` branch, create release tags for the HEAD commit.

  ```bash
  git tag {RELEASE_VERSION}
  ```
  Replace {RELEASE_VERSION} with the new release version, for example, `1.0.0`

6. Push the tag to the upstream repository.

  ```bash
  git push {REPOSITORY_REMOTE} {RELEASE_VERSION}
  ```

  The {RELEASE_VERSION} tag triggers a GitHub action (`GitHub Release`).

7. Verify the [status](https://github.com/kyma-project/opentelemetry-collector-components/actions) of the GitHub action (`GitHub Release`).
  - After the GitHub action succeeded, the new GitHub release is available under [releases](https://github.com/kyma-project/opentelemetry-collector-components/releases).
  - If the GitHub action fails, re-trigger it by removing the {RELEASE_VERSION} tag from upstream and pushing it again:

    ```bash
    git push --delete upstream v{RELEASE_VERSION}
    git push upstream v{RELEASE_VERSION}
    ```

8. If the previous
 release was a bugfix version (patch release) that contains cherry-picked changes, these changes might appear again in the generated change log. If there are redundant entries, edit the release description and remove them.

Changelog

Every PR's title must adhere to the [Conventional Commits](https://www.conventionalcommits.org/en/v1.0.0/) specification for an automatic changelog generation. It is enforced by a [semantic-pull-request](https://github.com/marketplace/actions/semantic-pull-request) GitHub Action.

Pull Request Title

Because of the squash-and-merge GitHub workflow, each PR results in a single commit after merging into the main development branch. The PR's title becomes the commit message and must adhere to the template:

`type(scope?): subject`

Type

- **feat**: A new feature or functionality change.
- **fix**: A bug or regression fix.
- **docs**: Changes regarding the documentation.
- **test**: The test suite alternations.
- **deps**: The changes in the
 external dependencies.
- **chore**: Anything not covered by the above categories (such as refactoring or artefacts building alternations).

Note that PRs of type `chore` do not appear in the change log for the release. Therefore, exclude maintenance changes that are not interesting to consumers of the project by marking them as "chore", for example:

- Dotfile changes (.gitignore, .github, and so forth).
- Changes to development-only dependencies.
- Minor code style changes.
- Formatting changes in documentation.

Subject

The subject must describe the change and follow the recommendations:

- Describe a change using the [imperative mood](https://en.wikipedia.org/wiki/Imperative_mood).
It must start with a present-tense verb, for example (but not limited to) Add, Document, Fix, Deprecate.
- Start with an uppercase, and not finish with a full stop.
- Kyma [capitalization](https://github.com/kyma-project/community/blob/main/docs/guidelines/content-guidelines/02-style-and-terminology.md#capitalization)
 and [terminology](https://github.com/kyma-project/community/blob/main/docs/guidelines/content-guidelines/02-style-and-terminology.md#terminology) guides.

1.5476 opentelemetry-collector 0.128.0

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1.5477 opentelemetry-collector-confmap 0.128.0

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1.5478 opentelemetry-collector-featuregate 1.34.0

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1.5481 d-conf 0.40.0-4ubuntu0.1

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1.5482 x-mod 0.26.0

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1.5483 dpkg 1.22.6ubuntu6.2

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
```

```
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
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==========
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==========
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//
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type License struct {
 Name string `json:"name,omitempty"`
 URL string `json:"url,omitempty"`
}
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Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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procfs provides functions to retrieve system, kernel and process
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package spec

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
 Name string `json:"name,omitempty"`
 URL  string `json:"url,omitempty"`
```

}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.5494 sdk-gitea 0.21.0

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1.5495 opentelemetry-collector-confmap-provider-envprovider 1.26.0

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1.5496 opentelemetry-collector-pdata 1.26.0

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1.5501 opentelemetry-collector-config-configtelemetry 0.120.0

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1.5503 opentelemetry-collector-pdata-pprofile 0.120.0

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1.5504 opentelemetry-collector-confmap-provider-httpsprovider 1.26.0

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1.5506 opentelemetry-collector-exporter-debugexporter 0.120.0

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1.5509 opentelemetry-collector-confmap-provider-yamlprovider 1.26.0

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1.5510 opentelemetry-collector-consumer-consumertest 0.120.0

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1.5513 opentelemetry-collector-exporter 0.120.0

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1.5514 opentelemetry-collector-connector 0.120.0

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1.5515 opentelemetry-collector-confmap-provider-httpprovider 1.26.0

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1.5516 opentelemetry-collector-component 0.120.0

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1.5517 opentelemetry-collector-otelcol 0.120.0

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1.5525 opentelemetry-collector-config-configtls 1.26.0

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tests/performance/perf_test_filelist.csv
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tests/fuzzers/fuzzingengine.c
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1.5527 python-lxml 6.0.2

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For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal

permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free

software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former
contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,
either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation

and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must
cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections
 of that work are not derived from the Library,
and can be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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a storage or distribution medium does not bring the other work under
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You may opt to apply the terms of the ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

 Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and
2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise,

if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of
this License. Also, you must do one
of these things:

@enumerate a
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at

least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact

that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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file to most effectively
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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
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In addition, mere aggregation of another work not based on the Program

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b) Accompany it with a written offer, valid for at least three
years, to give any third party, for a charge no more than your
cost of physically performing source distribution, a complete
machine-readable copy of the corresponding source code, to be
distributed under the terms of Sections 1 and 2 above on a medium
customarily used for software interchange; or,

c) Accompany it with the information you received as to the offer
to distribute corresponding source code. (This alternative is
allowed only for noncommercial distribution
and only if you
received the program in object code or executable form with such
an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source
code means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to
control compilation and installation of the executable. However, as a
special exception, the source code distributed need not include
anything that is normally distributed (in either source or binary
form) with the major components (compiler, kernel, and so on) of the
operating system on which the executable runs, unless that component
itself accompanies the executable.

If distribution of executable or object code is made by offering
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access to copy the source code from the same place counts as
distribution of the source
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1.5537 opentelemetry-collector-pdata 1.0.1

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1.5538 contrib-propagators-autoprop 0.61.0

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1.5539 gateway-api 1.3.1-0.20250611112659-17a60f668a0d

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developed to define how individuals can earn formal roles within the project.
The Gateway API contributor ladder largely follows the [roles defined by the
broader Kubernetes
community](https://github.com/kubernetes/community/blob/master/community-membership.md),
though there are some aspects that are unique to this community.

Goals

We hope that this doc will provide an initial step towards the following goals:

* Ensure the long term health of the Gateway API community
* Encourage new contributors to work towards formal roles and responsibilities
 in the project
* Clearly define the path towards leadership roles
* Develop a strong leadership pipeline so we have great candidates to fill
 project leadership roles

Scope

The following repositories are covered by this doc:

* [kubernetes-sigs/gateway-api](https://github.com/kubernetes-sigs/gateway-api)
* [kubernetes-sigs/ingress2gateway](https://github.com/kubernetes-sigs/ingress2gateway)
*
 [kubernetes-sigs/gwctl](https://github.com/kubernetes-sigs/gwctl)
* [kubernetes-sigs/blixt](https://github.com/kubernetes-sigs/blixt)

Within each of these projects, there are opportunities to become an approver or reviewer for either the entire project, or a subset of that project. For example, you could become a reviewer or approver focused on just docs, GEPs, API changes, or conformance tests.

General Guidelines

1. Everyone is welcome

We appreciate all contributions. You dont need to have a formal role in the project to make or review pull requests, and help with issues or discussions. Accepting a formal role within the project is entirely optional.

2. These roles require continued contributions

Applying for one of the roles defined above should only be done if you intend to continue to contribute at a level that would merit that role. If for any reason you are unable to continue in one of the roles above,
 please resign. Members
with an extended period away from the project with no activity will be removed from the Kubernetes GitHub Organizations and will be required to go through the org membership process again after re-familiarizing themselves with the current state.

3. Dont merge without consensus

If you have reason to believe that a change may be contentious, please wait for additional perspectives from others before merging any PRs. Even if you have access to merge a PR, it doesnt mean you should. Although we cant have PRs blocked indefinitely, we need to make sure everyone has had a chance to present their perspective.

4. Start a discussion

If youre interested in working towards one of these roles, please reach out to a Gateway API maintainer on Slack.

Contributor Ladder

The Gateway API contributor ladder has the following steps:

1. Member

2. Reviewer
3. Approver
4. Maintainer

This is also a GAMMA-specific leadership role that does not fit as cleanly on this ladder.
All of these roles will be defined in more detail below.

Member, Reviewer, and Approver

The first steps on the contributor ladder are already [clearly defined in the upstream Kubernetes Community](https://github.com/kubernetes/community/blob/master/community-membership.md#community-membership).
Gateway API follows those guidelines along with the rest of the Kubernetes community. Within Gateway API, there are a variety of areas one can become a reviewer or approver, this includes:

* Conformance
* Documentation
* GEPs

Maintainers and GAMMA Leads

The final steps on the contributor ladder represent large overall leadership roles within the project as a whole. The spaces available for these roles are limited (generally 3-4 people in each role is ideal). Wherever possible, we try to ensure that different companies are represented in these roles.

Maintainers

Gateway API Maintainers are known as [Subproject Owners](https://github.com/kubernetes/community/blob/master/community-membership.md#subproject-owner) within
the Kubernetes community. To become a Gateway API Maintainer, the most important things we expect are:

* Long term, sustained contributions to Gateway API for at least 6 months
* Deep understanding of technical goals and direction of the project
* Successfully authored and led significant enhancement proposals
* Approver for at least 3 months
* Ability to lead community meetings

In addition to all of the expectations described above, we expect maintainers to set the technical direction and goals for the project. This role is critical to the health of the project, maintainers should mentor new approvers and reviewers, and ensure that there are healthy processes in place for discussion and decision making. Finally, maintainers are ultimately responsible for

releasing new versions of the API.

GAMMA Leads

The concept of GAMMA Leads does not have a perfect parallel on the upstream Kubernetes community ladder. They are essentially Subproject Owners, but for the GAMMA initiative, which is a major initiative within Gateway API.

To become a GAMMA lead, the most important thing we expect are:

* Significant experience with Service Mesh implementation(s)
* Deep understanding of technical goals and direction of the project
* Long term, sustained contributions to the GAMMA initiative for at least 6 months
* Ability to lead community meetings

In addition to all of the expectations described above, we expect GAMMA Leads to set the technical direction and goals for the GAMMA initiative. They should ensure that there are healthy processes in place for discussion and decision making and that the release goals and milestones are clearly defined.

1.5540 component-helpers 0.33.2

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1.5541 kubelet 0.34.0-rc.2

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1.5542 controller-tools 0.18.0

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1.5543 mcs-api 0.1.1-0.20250610011024-38bab5ba476b

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1.5544 x-arch 0.20.0

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1.5545 x-tools 0.35.0

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1.5546 system-validators 1.10.1

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1.5547 cri-client 0.34.0-rc.2

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1.5548 prometheus-operator 0.85.0

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1.5549 github.com/kimmachinegun/automemlimit 0.7.4

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1.5550 component-base 0.33.4

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1.5551 k8s.io/sample-controller 0.33.4

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1.5552 u-boot 1:1:8.2.2+ds-0ubuntu1.10

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```
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*  x86_64 system call definitions
*
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

#define __USER_CS (0x33)
#define __USER_DS (0x2B)

struct target_pt_regs {
 abi_ulong r15;
 abi_ulong r14;
 abi_ulong r13;
 abi_ulong r12;
 abi_ulong rbp;
 abi_ulong rbx;
/* arguments: non interrupts/non tracing syscalls only save up to here */
 abi_ulong
 r11;
 abi_ulong r10;
 abi_ulong r9;
 abi_ulong r8;
 abi_ulong rax;
 abi_ulong rcx;
 abi_ulong rdx;
 abi_ulong rsi;
 abi_ulong rdi;
 abi_ulong orig_rax;
/* end of arguments */
/* cpu exception frame or undefined */
```

```
 abi_ulong rip;
 abi_ulong cs;
 abi_ulong eflags;
 abi_ulong rsp;
 abi_ulong ss;
/* top of stack page */
};

/* Maximum number of LDT entries supported. */
#define TARGET_LDT_ENTRIES 8192
/* The size of each LDT entry. */
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES 16
#define TARGET_GDT_ENTRY_TLS_ENTRIES 3
#define TARGET_GDT_ENTRY_TLS_MIN 12
#define TARGET_GDT_ENTRY_TLS_MAX 14

#if 0 // Redefine this
struct target_modify_ldt_ldt_s {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
 unsigned int  seg_32bit:1;
 unsigned int  contents:2;
 unsigned int  read_exec_only:1;
 unsigned int  limit_in_pages:1;
 unsigned int  seg_not_present:1;
 unsigned int  useable:1;
 unsigned int  lm:1;
};
#else
struct target_modify_ldt_ldt_s
 {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
      unsigned int flags;
};
#endif

struct target_ipc64_perm
{
 int  key;
 uint32_t uid;
 uint32_t gid;
 uint32_t cuid;
 uint32_t cgid;
```

```
 unsigned short  mode;
 unsigned short  __pad1;
 unsigned short  seq;
 unsigned short  __pad2;
 abi_ulong  __unused1;
 abi_ulong  __unused2;
};

struct target_msqid64_ds {
 struct target_ipc64_perm msg_perm;
 unsigned int msg_stime; /* last msgsnd time */
 unsigned int msg_rtime; /* last msgrcv time */
 unsigned int msg_ctime; /* last change time */
 abi_ulong  msg_cbytes; /* current number of bytes on queue */
 abi_ulong  msg_qnum; /* number of messages in queue */
 abi_ulong  msg_qbytes; /* max number of bytes on queue */
 unsigned int msg_lspid; /* pid of last msgsnd */
 unsigned int msg_lrpid; /* last receive pid */
 abi_ulong  __unused4;
 abi_ulong  __unused5;
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
    /*
 I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
    /* xxxxx */
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10

#define TARGET_FREEBSD_AMD64_GET_FSBASE 128
#define TARGET_FREEBSD_AMD64_SET_FSBASE 129
#define TARGET_FREEBSD_AMD64_GET_GSBASE 130
#define TARGET_FREEBSD_AMD64_SET_GSBASE 131


#define UNAME_MACHINE           "x86_64"
#define TARGET_HW_MACHINE       "amd64"
#define TARGET_HW_MACHINE_ARCH  "amd64"

#define TARGET_ARCH_SET_GS 0x1001
#define TARGET_ARCH_SET_FS 0x1002
#define TARGET_ARCH_GET_FS 0x1003
```

```
#define TARGET_ARCH_GET_GS 0x1004

#endif /* TARGET_SYSCALL_H */
```

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```
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{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
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{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
 "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
 "posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
```

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{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
 "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
```

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{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
 "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
 NULL },
```

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```
/*
*  OpenBSD setup_initial_stack() implementation.
*
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```

```
*/

#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
   abi_ulong *stringp)
{
   int i;
   abi_ulong stack_base;

   stack_base
 = (target_stkbas + target_stksiz) -
               MAX_ARG_PAGES * TARGET_PAGE_SIZE;
   if (p) {
       *p = stack_base;
   }
   if (stringp) {
       *stringp = stack_base;
   }

   for (i = 0; i < MAX_ARG_PAGES; i++) {
       if (bprm->page[i]) {
           info->rss++;
           if (!memcpy_to_target(stack_base, bprm->page[i],
                     TARGET_PAGE_SIZE)) {
               errno = EFAULT;
               return -1;
           }
           g_free(bprm->page[i]);
       }
       stack_base += TARGET_PAGE_SIZE;
   }

   return 0;
}

#endif /* TARGET_OS_STACK_H */
```

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```
/*
*  NetBSD host dependent code and definitions
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```

```
*/

#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_netbsd

#endif /* HOST_OS_H */
/*
* FreeBSD has a common ucontext definition for all architectures.
*
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*/
#ifndef TARGET_OS_UCONTEXT_H
#define TARGET_OS_UCONTEXT_H

/*
* Defines the common bits for all of FreeBSD's architectures. Has to be
* included AFTER the MD target_mcontext_t is defined, however, so can't
* be in the grab-bag that is target_os_signal.h.
*/

/* See FreeBSD's sys/ucontext.h */
#define TARGET_MC_GET_CLEAR_RET 0x0001

/* FreeBSD's sys/_ucontext.h structures */
typedef struct target_ucontext {
   target_sigset_t     uc_sigmask;
   target_mcontext_t   uc_mcontext;
   abi_ulong           uc_link;
   target_stack_t      uc_stack;
   int32_t             uc_flags;
   int32_t             __spare__[4];
} target_ucontext_t;

G_STATIC_ASSERT(TARGET_MCONTEXT_SIZE == sizeof(target_mcontext_t));
G_STATIC_ASSERT(TARGET_UCONTEXT_SIZE == sizeof(target_ucontext_t));

struct target_sigframe;

abi_long
 set_sigtramp_args(CPUArchState *env, int sig,
                   struct target_sigframe *frame,
                   abi_ulong frame_addr,
                   struct target_sigaction *ka);
abi_long get_mcontext(CPUArchState *env, target_mcontext_t *mcp, int flags);
```

```
abi_long set_mcontext(CPUArchState *env, target_mcontext_t *mcp, int srflag);
abi_long get_ucontext_sigreturn(CPUArchState *env, abi_ulong target_sf,
                                abi_ulong *target_uc);

#endif /* TARGET_OS_UCONTEXT_H */
```

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```
if not have_bsd_user
  subdir_done()
endif

bsd_user_ss = ss.source_set()

common_user_inc += include_directories('include')

bsd_user_ss.add(files(
 'bsd-mem.c',
```

```
 'bsd-proc.c',
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'uaccess.c',
))

elf = cc.find_library('elf', required: true)
procstat = cc.find_library('procstat', required: true)
kvm = cc.find_library('kvm', required: true)
bsd_user_ss.add(elf, procstat, kvm)

# Pull in the OS-specific build glue, if any
subdir(targetos)

specific_ss.add_all(when: 'CONFIG_BSD_USER', if_true: bsd_user_ss)
/*
*  FreeBSD VM parameters definitions
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*/

#ifndef TARGET_OS_VMPARAM_H
#define TARGET_OS_VMPARAM_H

#include "target_arch_vmparam.h"

/* Compare to sys/exec.h */
struct target_ps_strings {
   abi_ulong ps_argvstr;
   uint32_t ps_nargvstr;
   abi_ulong ps_envstr;
```

```
   uint32_t ps_nenvstr;
};

extern
 abi_ulong target_stkbas;
extern abi_ulong target_stksiz;

#define TARGET_PS_STRINGS  ((target_stkbas + target_stksiz) - \
                        sizeof(struct target_ps_strings))

#endif /* TARGET_OS_VMPARAM_H */
/*
* ARM 32-bit specific prototypes for bsd-user
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*/

#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

#include "qemu.h"
#include "target/arm/cpu-features.h"

void target_cpu_set_tls(CPUARMState *env, target_ulong newtls);
target_ulong target_cpu_get_tls(CPUARMState *env);

#endif /* TARGET_ARCH_H */
/*
* host-signal.h: signal info dependent on the host architecture
*
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*/
```

```
#ifndef I386_HOST_SIGNAL_H
#define I386_HOST_SIGNAL_H

#include <sys/param.h>
#include <sys/ucontext.h>
#include <machine/trap.h>
#include <vm/pmap.h>
#include <machine/pmap.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
  return uc->uc_mcontext.mc_eip;
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.mc_eip = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
{
  /*
   * Look in sys/i386/i386/trap.c. NOTE: mc_err == tr_err due to type punning
   * between a trapframe and mcontext on FreeBSD/i386.
   */
  return uc->uc_mcontext.mc_trapno == T_PAGEFLT &&
      uc->uc_mcontext.mc_err & PGEX_W;
}

#endif
/*
*  arm VM parameters definitions
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*/
```

```
#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to sys/arm/include/vmparam.h */
#define TARGET_MAXTSIZ      (64 * MiB)          /* max text size */
#define TARGET_DFLDSIZ      (128 * MiB)         /* initial data size
 limit */
#define TARGET_MAXDSIZ      (512 * MiB)         /* max data size */
#define TARGET_DFLSSIZ      (4 * MiB)           /* initial stack size limit */
#define TARGET_MAXSSIZ      (64 * MiB)          /* max stack size */
#define TARGET_SGROWSIZ     (128 * KiB)         /* amount to grow stack */

#define TARGET_RESERVED_VA  0xf7000000

             /* KERNBASE - 512 MB */
#define TARGET_VM_MAXUSER_ADDRESS   (0xc0000000 - (512 * MiB))
#define TARGET_USRSTACK             TARGET_VM_MAXUSER_ADDRESS

static inline abi_ulong get_sp_from_cpustate(CPUARMState *state)
{
  return state->regs[13]; /* sp */
}

static inline void set_second_rval(CPUARMState *state, abi_ulong retval2)
{
  state->regs[1] = retval2;
}

#endif /* TARGET_ARCH_VMPARAM_H */
/*
*  x86_64 thread support
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*/

#ifndef TARGET_ARCH_THREAD_H
#define TARGET_ARCH_THREAD_H

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
   abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
   /* XXX */
}

static
 inline void target_thread_init(struct target_pt_regs *regs,
   struct image_info *infop)
{
   regs->rax = 0;
   regs->rsp = infop->start_stack;
   regs->rip = infop->entry;
   regs->rdi = infop->start_stack;
}

#endif /* TARGET_ARCH_THREAD_H */
/*
*  i386 ELF definitions
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*/

#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x01001000
#define elf_check_arch(x) (((x) == EM_386) || ((x) == EM_486))
```

```
#define ELF_HWCAP       0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define ELF_CLASS       ELFCLASS32
#define
 ELF_DATA        ELFDATA2LSB
#define ELF_ARCH        EM_386

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096

#endif /* TARGET_ARCH_ELF_H */
/*
*  miscellaneous FreeBSD system call shims
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*/

#ifndef OS_MISC_H
#define OS_MISC_H

#include <sys/cpuset.h>
#include <sys/random.h>
#include <sched.h>

/*
* shm_open2 isn't exported, but the __sys_ alias is. We can use either for the
* static version, but to dynamically link we have to use the
 sys version.
*/
int __sys_shm_open2(const char *path, int flags, mode_t mode, int shmflags,
   const char *);

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300048
/* shm_open2(2) */
```

```
static inline abi_long do_freebsd_shm_open2(abi_ulong pathptr, abi_ulong flags,
   abi_long mode, abi_ulong shmflags, abi_ulong nameptr)
{
   int ret;
   void *uname, *upath;

   if (pathptr == (uintptr_t)SHM_ANON) {
       upath = SHM_ANON;
   } else {
       upath = lock_user_string(pathptr);
       if (upath == NULL) {
           return -TARGET_EFAULT;
       }
   }

   uname = NULL;
   if (nameptr != 0) {
       uname = lock_user_string(nameptr);
       if (uname == NULL) {
           unlock_user(upath, pathptr, 0);
           return -TARGET_EFAULT;
       }
   }
   ret = get_errno(__sys_shm_open2(upath,
               target_to_host_bitmask(flags, fcntl_flags_tbl), mode,
               target_to_host_bitmask(shmflags, shmflag_flags_tbl), uname));

   if (upath != SHM_ANON)
  {
       unlock_user(upath, pathptr, 0);
   }
   if (uname != NULL) {
       unlock_user(uname, nameptr, 0);
   }
   return ret;
}
#endif /* __FreeBSD_version >= 1300048 */

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300049
/* shm_rename(2) */
static inline abi_long do_freebsd_shm_rename(abi_ulong fromptr, abi_ulong toptr,
       abi_ulong flags)
{
   int ret;
   void *ufrom, *uto;

   ufrom = lock_user_string(fromptr);
   if (ufrom == NULL) {
```

```
        return -TARGET_EFAULT;
    }
    uto = lock_user_string(toptr);
    if (uto == NULL) {
        unlock_user(ufrom, fromptr, 0);
        return -TARGET_EFAULT;
    }
    ret = get_errno(shm_rename(ufrom, uto, flags));
    unlock_user(ufrom, fromptr, 0);
    unlock_user(uto, toptr, 0);

    return ret;
}
#endif /* __FreeBSD_version >= 1300049 */

#endif /* OS_MISC_H */
/*
*  FreeBSD amd64 register structures
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*/

#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/amd64/include/reg.h */
typedef struct target_reg {
    uint64_t        r_r15;
    uint64_t        r_r14;
    uint64_t        r_r13;
    uint64_t        r_r12;
    uint64_t
        r_r11;
    uint64_t        r_r10;
```

```
  uint64_t        r_r9;
  uint64_t        r_r8;
  uint64_t        r_rdi;
  uint64_t        r_rsi;
  uint64_t        r_rbp;
  uint64_t        r_rbx;
  uint64_t        r_rdx;
  uint64_t        r_rcx;
  uint64_t        r_rax;
  uint32_t        r_trapno;
  uint16_t        r_fs;
  uint16_t        r_gs;
  uint32_t        r_err;
  uint16_t        r_es;
  uint16_t        r_ds;
  uint64_t        r_rip;
  uint64_t        r_cs;
  uint64_t        r_rflags;
  uint64_t        r_rsp;
  uint64_t        r_ss;
} target_reg_t;

typedef struct target_fpreg {
  uint64_t        fpr_env[4];
  uint8_t         fpr_acc[8][16];
  uint8_t         fpr_xacc[16][16];
  uint64_t        fpr_spare[12];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
{

  regs->r_r15 = env->regs[15];
  regs->r_r14 = env->regs[14];
  regs->r_r13 = env->regs[13];
  regs->r_r12 = env->regs[12];
   regs->r_r11 = env->regs[11];
  regs->r_r10 = env->regs[10];
  regs->r_r9 = env->regs[9];
  regs->r_r8 = env->regs[8];
  regs->r_rdi = env->regs[R_EDI];
  regs->r_rsi = env->regs[R_ESI];
  regs->r_rbp = env->regs[R_EBP];
  regs->r_rbx = env->regs[R_EBX];
  regs->r_rdx = env->regs[R_EDX];
  regs->r_rcx = env->regs[R_ECX];
  regs->r_rax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
```

```
  regs->r_fs = env->segs[R_FS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_es = env->segs[R_ES].selector & 0xffff;
  regs->r_ds = env->segs[R_DS].selector & 0xffff;
  regs->r_rip = env->eip;
  regs->r_cs = env->segs[R_CS].selector & 0xffff;
  regs->r_rflags = env->eflags;
  regs->r_rsp = env->regs[R_ESP];
  regs->r_ss = env->segs[R_SS].selector & 0xffff;
}

#endif /* TARGET_ARCH_REG_H */
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*  FreeBSD dependent strace print functions
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*/

#include "target_arch_sysarch.h"    /* architecture dependent functions */


static inline void do_os_print_sysarch(const struct syscallname *name,
      abi_long arg1, abi_long arg2, abi_long arg3, abi_long arg4,
      abi_long arg5, abi_long arg6)
{
   /* This is arch dependent */
  do_freebsd_arch_print_sysarch(name, arg1, arg2, arg3, arg4, arg5, arg6);
}
/*
* host-signal.h: signal info dependent on the host architecture
*
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```

```
*/

#ifndef ARM_HOST_SIGNAL_H
#define ARM_HOST_SIGNAL_H

#include <sys/ucontext.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
  return uc->uc_mcontext.__gregs[_REG_PC];
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.__gregs[_REG_PC] = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
{
  /*
   * In the FSR, bit 11 is WnR. FreeBSD returns this as part of the
   * si_info.si_trapno.
   */
  uint32_t fsr = info->si_trapno;

  return extract32(fsr, 11, 1);
}

#endif
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*/
```

```
#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_freebsd

#endif /* HOST_OS_H */
/*
*  FreeBSD thread dependent code and definitions
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*/

#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"

#endif /* TARGET_OS_THREAD_H */
```

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the work with the complete corresponding
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```
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* Intel i386  sigcode for bsd-user
*
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*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
       unsigned sys_sigreturn)
{

   return 0;
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/* XXX OpenBSD dependent strace print functions */
```

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```
/*
* host-signal.h: signal info dependent on the host architecture
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*/

#ifndef X86_64_HOST_SIGNAL_H
#define X86_64_HOST_SIGNAL_H

#include <sys/param.h>
#include <sys/ucontext.h>
#include <machine/trap.h>
#include <vm/pmap.h>
#include <machine/pmap.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
  return uc->uc_mcontext.mc_rip;
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.mc_rip = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
```

```
{
  /*
   * Look in sys/amd64/amd64/trap.c. NOTE: mc_err == tr_err due to type
   * punning between a trapframe and mcontext on FreeBSD/amd64.
   */
  return uc->uc_mcontext.mc_trapno == T_PAGEFLT &&
      uc->uc_mcontext.mc_err & PGEX_W;
}

#endif
```

License for Berkeley TestFloat Release 3e

John R. Hauser
2018 January 20

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```
#include "trace/trace-bsd_user.h"
/*
*  memory management system call shims and definitions
*
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```

```
* SUCH DAMAGE.
*/

#ifndef BSD_USER_BSD_MEM_H
#define BSD_USER_BSD_MEM_H

#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/mman.h>
#include <sys/shm.h>
#include <fcntl.h>

#include "qemu-bsd.h"

extern struct bsd_shm_regions bsd_shm_regions[];
extern abi_ulong target_brk;
extern abi_ulong initial_target_brk;

/* mmap(2) */
static inline abi_long do_bsd_mmap(void *cpu_env, abi_long arg1, abi_long arg2,
   abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6, abi_long arg7,
   abi_long arg8)
{
   if (regpairs_aligned(cpu_env) != 0) {
       arg6 = arg7;
       arg7 = arg8;
   }
   return get_errno(target_mmap(arg1, arg2,
 arg3,
                                target_to_host_bitmask(arg4, mmap_flags_tbl),
                                arg5, target_arg64(arg6, arg7)));
}

/* munmap(2) */
static inline abi_long do_bsd_munmap(abi_long arg1, abi_long arg2)
{
   return get_errno(target_munmap(arg1, arg2));
}

/* mprotect(2) */
static inline abi_long do_bsd_mprotect(abi_long arg1, abi_long arg2,
       abi_long arg3)
{
   return get_errno(target_mprotect(arg1, arg2, arg3));
}

/* msync(2) */
static inline abi_long do_bsd_msync(abi_long addr, abi_long len, abi_long flags)
```

```
{
   if (!guest_range_valid_untagged(addr, len)) {
       /* It seems odd, but POSIX wants this to be ENOMEM */
       return -TARGET_ENOMEM;
   }

   return get_errno(msync(g2h_untagged(addr), len, flags));
}

/* mlock(2) */
static inline abi_long do_bsd_mlock(abi_long arg1, abi_long arg2)
{
   if (!guest_range_valid_untagged(arg1, arg2)) {
       return -TARGET_EINVAL;
   }
   return get_errno(mlock(g2h_untagged(arg1), arg2));
}

/*
 munlock(2) */
static inline abi_long do_bsd_munlock(abi_long arg1, abi_long arg2)
{
   if (!guest_range_valid_untagged(arg1, arg2)) {
       return -TARGET_EINVAL;
   }
   return get_errno(munlock(g2h_untagged(arg1), arg2));
}

/* mlockall(2) */
static inline abi_long do_bsd_mlockall(abi_long arg1)
{
   return get_errno(mlockall(arg1));
}

/* munlockall(2) */
static inline abi_long do_bsd_munlockall(void)
{
   return get_errno(munlockall());
}

/* madvise(2) */
static inline abi_long do_bsd_madvise(abi_long arg1, abi_long arg2,
       abi_long arg3)
{
   abi_ulong len;
   int ret = 0;
   abi_long start = arg1;
   abi_long len_in = arg2;
```

```
  abi_long advice = arg3;

  if (start & ~TARGET_PAGE_MASK) {
      return -TARGET_EINVAL;
  }
  if (len_in == 0) {
      return 0;
  }
  len = TARGET_PAGE_ALIGN(len_in);
  if (len == 0 || !guest_range_valid_untagged(start, len)) {
      return -TARGET_EINVAL;
  }

  /*
   * Most advice values are hints, so ignoring
 and returning success is ok.
   *
   * However, some advice values such as MADV_DONTNEED, are not hints and
   * need to be emulated.
   *
   * A straight passthrough for those may not be safe because qemu sometimes
   * turns private file-backed mappings into anonymous mappings.
   * If all guest pages have PAGE_PASSTHROUGH set, mappings have the
   * same semantics for the host as for the guest.
   *
   * MADV_DONTNEED is passed through, if possible.
   * If passthrough isn't possible, we nevertheless (wrongly!) return
   * success, which is broken but some userspace programs fail to work
   * otherwise. Completely implementing such emulation is quite complicated
   * though.
   */
  mmap_lock();
  switch (advice) {
  case MADV_DONTNEED:
      if (page_check_range(start, len, PAGE_PASSTHROUGH)) {
          ret = get_errno(madvise(g2h_untagged(start), len, advice));
          if (ret == 0) {
              page_reset_target_data(start,
 start + len - 1);
          }
      }
  }
  mmap_unlock();

  return ret;
}

/* minherit(2) */
```

```
static inline abi_long do_bsd_minherit(abi_long addr, abi_long len,
      abi_long inherit)
{
  return get_errno(minherit(g2h_untagged(addr), len, inherit));
}

/* mincore(2) */
static inline abi_long do_bsd_mincore(abi_ulong target_addr, abi_ulong len,
      abi_ulong target_vec)
{
  abi_long ret;
  void *p;
  abi_ulong vec_len = DIV_ROUND_UP(len, TARGET_PAGE_SIZE);

  if (!guest_range_valid_untagged(target_addr, len)
      || !page_check_range(target_addr, len, PAGE_VALID)) {
      return -TARGET_EFAULT;
  }

  p = lock_user(VERIFY_WRITE, target_vec, vec_len, 0);
  if (p == NULL) {
      return -TARGET_EFAULT;
  }
  ret = get_errno(mincore(g2h_untagged(target_addr), len, p));
  unlock_user(p, target_vec, vec_len);

  return ret;
}

/* do_brk() must return target values and target errnos. */
static inline abi_long do_obreak(abi_ulong brk_val)
{
   abi_long mapped_addr;
  abi_ulong new_brk;
  abi_ulong old_brk;

  /* brk pointers are always untagged */

  /* do not allow to shrink below initial brk value */
  if (brk_val < initial_target_brk) {
      return target_brk;
  }

  new_brk = TARGET_PAGE_ALIGN(brk_val);
  old_brk = TARGET_PAGE_ALIGN(target_brk);

  /* new and old target_brk might be on the same page */
  if (new_brk == old_brk) {
```

```
        target_brk = brk_val;
        return target_brk;
    }

    /* Release heap if necessary */
    if (new_brk < old_brk) {
        target_munmap(new_brk, old_brk - new_brk);

        target_brk = brk_val;
        return target_brk;
    }

    mapped_addr = target_mmap(old_brk, new_brk - old_brk,
                              PROT_READ | PROT_WRITE,
                              MAP_FIXED | MAP_EXCL | MAP_ANON | MAP_PRIVATE,
                              -1, 0);

    if (mapped_addr == old_brk) {
        target_brk = brk_val;
        return target_brk;
    }

    /*
  For everything else, return the previous break. */
    return target_brk;
}

/* shm_open(2) */
static inline abi_long do_bsd_shm_open(abi_ulong arg1, abi_long arg2,
        abi_long arg3)
{
    int ret;
    void *p;

    if (arg1 == (uintptr_t)SHM_ANON) {
        p = SHM_ANON;
    } else {
        p = lock_user_string(arg1);
        if (p == NULL) {
            return -TARGET_EFAULT;
        }
    }
    ret = get_errno(shm_open(p, target_to_host_bitmask(arg2, fcntl_flags_tbl),
                             arg3));

    if (p != SHM_ANON) {
        unlock_user(p, arg1, 0);
    }
```

```
    return ret;
}

/* shm_unlink(2) */
static inline abi_long do_bsd_shm_unlink(abi_ulong arg1)
{
    int ret;
    void *p;

    p = lock_user_string(arg1);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(shm_unlink(p)); /* XXX path(p)? */
    unlock_user(p, arg1, 0);

    return ret;
}

/* shmget(2) */
static inline abi_long do_bsd_shmget(abi_long arg1, abi_ulong arg2,
        abi_long
 arg3)
{
    return get_errno(shmget(arg1, arg2, arg3));
}

/* shmctl(2) */
static inline abi_long do_bsd_shmctl(abi_long shmid, abi_long cmd,
        abi_ulong buff)
{
    struct shmid_ds dsarg;
    abi_long ret = -TARGET_EINVAL;

    cmd &= 0xff;

    switch (cmd) {
    case IPC_STAT:
        if (target_to_host_shmid_ds(&dsarg, buff)) {
            return -TARGET_EFAULT;
        }
        ret = get_errno(shmctl(shmid, cmd, &dsarg));
        if (host_to_target_shmid_ds(buff, &dsarg)) {
            return -TARGET_EFAULT;
        }
        break;
```

```
    case IPC_SET:
        if (target_to_host_shmid_ds(&dsarg, buff)) {
            return -TARGET_EFAULT;
        }
        ret = get_errno(shmctl(shmid, cmd, &dsarg));
        break;

    case IPC_RMID:
        ret = get_errno(shmctl(shmid, cmd, NULL));
        break;

    default:
        ret = -TARGET_EINVAL;
        break;
    }

    return ret;
}

/* shmat(2) */
static inline abi_long do_bsd_shmat(int shmid, abi_ulong shmaddr, int shmflg)
{
     abi_ulong raddr;
    abi_long ret;
    struct shmid_ds shm_info;

    /* Find out the length of the shared memory segment. */
    ret = get_errno(shmctl(shmid, IPC_STAT, &shm_info));
    if (is_error(ret)) {
        /* Can't get the length */
        return ret;
    }

    if (!guest_range_valid_untagged(shmaddr, shm_info.shm_segsz)) {
        return -TARGET_EINVAL;
    }

    WITH_MMAP_LOCK_GUARD() {
        void *host_raddr;

        if (shmaddr) {
            host_raddr = shmat(shmid, (void *)g2h_untagged(shmaddr), shmflg);
        } else {
            abi_ulong mmap_start;

            mmap_start = mmap_find_vma(0, shm_info.shm_segsz);

            if (mmap_start == -1) {
```

```
            return -TARGET_ENOMEM;
        }
        host_raddr = shmat(shmid, g2h_untagged(mmap_start),
                           shmflg | SHM_REMAP);
    }

    if (host_raddr == (void *)-1) {
        return get_errno(-1);
    }
    raddr = h2g(host_raddr);


    page_set_flags(raddr, raddr + shm_info.shm_segsz - 1,
                   PAGE_VALID | PAGE_RESET | PAGE_READ |
                   (shmflg & SHM_RDONLY ? 0 : PAGE_WRITE));

    for (int i = 0; i < N_BSD_SHM_REGIONS; i++) {
        if (bsd_shm_regions[i].start == 0) {
            bsd_shm_regions[i].start = raddr;
            bsd_shm_regions[i].size = shm_info.shm_segsz;
            break;
        }
    }
  }

  return raddr;
}

/* shmdt(2) */
static inline abi_long do_bsd_shmdt(abi_ulong shmaddr)
{
  abi_long ret;

  WITH_MMAP_LOCK_GUARD() {
    int i;

    for (i = 0; i < N_BSD_SHM_REGIONS; ++i) {
        if (bsd_shm_regions[i].start == shmaddr) {
            break;
        }
    }

    if (i == N_BSD_SHM_REGIONS) {
        return -TARGET_EINVAL;
    }

    ret = get_errno(shmdt(g2h_untagged(shmaddr)));
    if (ret == 0) {
```

```
        abi_ulong size = bsd_shm_regions[i].size;

        bsd_shm_regions[i].start
 = 0;
        page_set_flags(shmaddr, shmaddr + size - 1, 0);
        mmap_reserve(shmaddr, size);
      }
    }

    return ret;
}

static inline abi_long do_bsd_vadvise(void)
{
    /* See sys_ovadvise() in vm_unix.c */
    return -TARGET_EINVAL;
}

static inline abi_long do_bsd_sbrk(void)
{
    /* see sys_sbrk() in vm_mmap.c */
    return -TARGET_EOPNOTSUPP;
}

static inline abi_long do_bsd_sstk(void)
{
    /* see sys_sstk() in vm_mmap.c */
    return -TARGET_EOPNOTSUPP;
}

#endif /* BSD_USER_BSD_MEM_H */
/*
*  i386 dependent signal definitions
*
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
```

```
#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)              /* min sig stack size */
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

typedef struct target_mcontext {
  abi_ulong   mc_onstack;     /* XXX - sigcontext compat. */
  abi_ulong   mc_gs;          /* machine state (struct trapframe) */
  abi_ulong   mc_fs;
  abi_ulong   mc_es;
  abi_ulong   mc_ds;
  abi_ulong   mc_edi;
  abi_ulong   mc_esi;
  abi_ulong   mc_ebp;
  abi_ulong   mc_isp;
  abi_ulong   mc_ebx;
  abi_ulong   mc_edx;
  abi_ulong   mc_ecx;
  abi_ulong   mc_eax;
  abi_ulong   mc_trapno;
  abi_ulong   mc_err;
  abi_ulong   mc_eip;
  abi_ulong   mc_cs;
  abi_ulong   mc_eflags;
  abi_ulong   mc_esp;
  abi_ulong   mc_ss;

  int32_t     mc_len;                 /* sizeof(mcontext_t) */
#define _MC_FPFMT_NODEV         0x10000 /* device not present or configured */
#define _MC_FPFMT_387           0x10001
#define _MC_FPFMT_XMM           0x10002
  int32_t     mc_fpformat;
#define _MC_FPOWNED_NONE        0x20000 /* FP state not used */
#define _MC_FPOWNED_FPU
        0x20001 /* FP state came from FPU */
#define _MC_FPOWNED_PCB         0x20002 /* FP state came from PCB */
  int32_t     mc_ownedfp;
  abi_ulong mc_flags;
      /*
       * See <machine/npx.h> for the internals of mc_fpstate[].
```

```
     */
  int32_t     mc_fpstate[128] __aligned(16);

  abi_ulong mc_fsbase;
  abi_ulong mc_gsbase;

  abi_ulong mc_xfpustate;
  abi_ulong mc_xfpustate_len;

  int32_t     mc_spare2[4];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 640
#define TARGET_UCONTEXT_SIZE 704

#include "target_os_ucontext.h"

struct target_sigframe {
  abi_ulong   sf_signum;
  abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
  abi_ulong   sf_ucontext;   /* points to sf_uc */
  abi_ulong   sf_addr;       /* undocumented 4th arg */
  target_ucontext_t   sf_uc; /* = *sf_uncontext */
  target_siginfo_t    sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
  uint32_t    __spare__[2];
};

#endif /* TARGET_ARCH_SIGNAL_H */
```

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==========

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```
/*
* System call numbers.
```

```
*
* DO NOT EDIT-- this file is automatically @generated.
* $FreeBSD$
*/

#define TARGET_FREEBSD_NR_syscall       0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
                        /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink        10
                        /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir        13
#define TARGET_FREEBSD_NR_freebsd11_mknod       14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
                        /* 18 is freebsd4 getfsstat */
                        /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid        20
#define TARGET_FREEBSD_NR_mount 21
#define
 TARGET_FREEBSD_NR_unmount       22
#define TARGET_FREEBSD_NR_setuid        23
#define TARGET_FREEBSD_NR_getuid        24
#define TARGET_FREEBSD_NR_geteuid       25
#define TARGET_FREEBSD_NR_ptrace        26
#define TARGET_FREEBSD_NR_recvmsg       27
#define TARGET_FREEBSD_NR_sendmsg       28
#define TARGET_FREEBSD_NR_recvfrom      29
#define TARGET_FREEBSD_NR_accept        30
#define TARGET_FREEBSD_NR_getpeername   31
#define TARGET_FREEBSD_NR_getsockname   32
#define TARGET_FREEBSD_NR_access        33
#define TARGET_FREEBSD_NR_chflags       34
#define TARGET_FREEBSD_NR_fchflags      35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
                        /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid       39
                        /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup   41
```

```
#define TARGET_FREEBSD_NR_freebsd10_pipe        42
#define TARGET_FREEBSD_NR_getegid       43
#define TARGET_FREEBSD_NR_profil        44
#define
 TARGET_FREEBSD_NR_ktrace        45
                        /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid        47
                        /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin      49
#define TARGET_FREEBSD_NR_setlogin      50
#define TARGET_FREEBSD_NR_acct  51
                        /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack   53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot        55
#define TARGET_FREEBSD_NR_revoke        56
#define TARGET_FREEBSD_NR_symlink       57
#define TARGET_FREEBSD_NR_readlink      58
#define TARGET_FREEBSD_NR_execve        59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot        61
                        /* 62 is old fstat */
                        /* 63 is old getkerninfo */
                        /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66

                       /* 67 is obsolete vread */
                        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
                        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_freebsd11_vadvise     72
#define TARGET_FREEBSD_NR_munmap        73
#define TARGET_FREEBSD_NR_mprotect      74
#define TARGET_FREEBSD_NR_madvise       75
                        /* 76 is obsolete vhangup */
                        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore       78
#define TARGET_FREEBSD_NR_getgroups     79
#define TARGET_FREEBSD_NR_setgroups     80
#define TARGET_FREEBSD_NR_getpgrp       81
#define TARGET_FREEBSD_NR_setpgid       82
#define TARGET_FREEBSD_NR_setitimer     83
                        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon        85
#define TARGET_FREEBSD_NR_getitimer     86
                        /* 87 is old gethostname */
```

```
                    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select        93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket        97
#define TARGET_FREEBSD_NR_connect       98
                    /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
                    /* 101 is old send */
                    /* 102 is old recv */
                    /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen        106
                    /* 107 is obsolete vtimes */
                    /* 108 is old sigvec */
                    /* 109 is old sigblock */
                    /* 110 is old sigsetmask */
                     /* 111 is old sigsuspend */
                    /* 112 is old sigstack */
                    /* 113 is old recvmsg */
                    /* 114 is old sendmsg */
                    /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage     117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev        121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown        123
#define TARGET_FREEBSD_NR_fchmod        124
                    /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid      126
#define TARGET_FREEBSD_NR_setregid      127
#define TARGET_FREEBSD_NR_rename        128
                    /* 129 is old truncate */
                    /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo
    132
#define TARGET_FREEBSD_NR_sendto        133
#define TARGET_FREEBSD_NR_shutdown      134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
```

```
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes        138
                        /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime       140
                        /* 141 is old getpeername */
                        /* 142 is old gethostid */
                        /* 143 is old sethostid */
                        /* 144 is old getrlimit */
                        /* 145 is old setrlimit */
                        /* 146 is old killpg */
#define TARGET_FREEBSD_NR_setsid        147
#define TARGET_FREEBSD_NR_quotactl      148
                        /* 149 is old quota */
                        /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc
      155
                        /* 156 is old getdirentries */
                        /* 157 is freebsd4 statfs */
                        /* 158 is freebsd4 fstatfs */
#define TARGET_FREEBSD_NR_lgetfh        160
#define TARGET_FREEBSD_NR_getfh 161
                        /* 162 is freebsd4 getdomainname */
                        /* 163 is freebsd4 setdomainname */
                        /* 164 is freebsd4 uname */
#define TARGET_FREEBSD_NR_sysarch       165
#define TARGET_FREEBSD_NR_rtprio        166
#define TARGET_FREEBSD_NR_semsys        169
#define TARGET_FREEBSD_NR_msgsys        170
#define TARGET_FREEBSD_NR_shmsys        171
                        /* 173 is freebsd6 pread */
                        /* 174 is freebsd6 pwrite */
#define TARGET_FREEBSD_NR_setfib        175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid        181
#define TARGET_FREEBSD_NR_setegid
   182
#define TARGET_FREEBSD_NR_seteuid       183
                        /* 184 is obsolete lfs_bmapv */
                        /* 185 is obsolete lfs_markv */
                        /* 186 is obsolete lfs_segclean */
                        /* 187 is obsolete lfs_segwait */
#define TARGET_FREEBSD_NR_freebsd11_stat        188
#define TARGET_FREEBSD_NR_freebsd11_fstat       189
#define TARGET_FREEBSD_NR_freebsd11_lstat       190
#define TARGET_FREEBSD_NR_pathconf      191
#define TARGET_FREEBSD_NR_fpathconf     192
#define TARGET_FREEBSD_NR_getrlimit     194
```

```
#define TARGET_FREEBSD_NR_setrlimit     195
#define TARGET_FREEBSD_NR_freebsd11_getdirentries       196
                        /* 197 is freebsd6 mmap */
#define TARGET_FREEBSD_NR___syscall     198
                        /* 199 is freebsd6 lseek */
                        /* 200 is freebsd6 truncate */
                        /* 201 is freebsd6 ftruncate */
#define
 TARGET_FREEBSD_NR___sysctl      202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock       204
#define TARGET_FREEBSD_NR_undelete      205
#define TARGET_FREEBSD_NR_futimes       206
#define TARGET_FREEBSD_NR_getpgid       207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl     220
#define TARGET_FREEBSD_NR_semget        221
#define TARGET_FREEBSD_NR_semop 222
                        /* 223 is obsolete semconfig */
#define TARGET_FREEBSD_NR_freebsd7_msgctl       224
#define TARGET_FREEBSD_NR_msgget        225
#define TARGET_FREEBSD_NR_msgsnd        226
#define TARGET_FREEBSD_NR_msgrcv        227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl       229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget        231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres  234
#define TARGET_FREEBSD_NR_ktimer_create
 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime        237
#define TARGET_FREEBSD_NR_ktimer_gettime        238
#define TARGET_FREEBSD_NR_ktimer_getoverrun     239
#define TARGET_FREEBSD_NR_nanosleep     240
#define TARGET_FREEBSD_NR_ffclock_getcounter    241
#define TARGET_FREEBSD_NR_ffclock_setestimate   242
#define TARGET_FREEBSD_NR_ffclock_getestimate   243
#define TARGET_FREEBSD_NR_clock_nanosleep       244
#define TARGET_FREEBSD_NR_clock_getcpuclockid2  247
#define TARGET_FREEBSD_NR_ntp_gettime   248
#define TARGET_FREEBSD_NR_minherit      250
#define TARGET_FREEBSD_NR_rfork 251
                        /* 252 is obsolete openbsd_poll */
#define TARGET_FREEBSD_NR_issetugid     253
#define TARGET_FREEBSD_NR_lchown        254
```

```
#define TARGET_FREEBSD_NR_aio_read      255
#define TARGET_FREEBSD_NR_aio_write     256
#define TARGET_FREEBSD_NR_lio_listio    257
#define TARGET_FREEBSD_NR_freebsd11_getdents    272
#define TARGET_FREEBSD_NR_lchmod
        274
                        /* 275 is obsolete netbsd_lchown */
#define TARGET_FREEBSD_NR_lutimes       276
                        /* 277 is obsolete netbsd_msync */
#define TARGET_FREEBSD_NR_freebsd11_nstat       278
#define TARGET_FREEBSD_NR_freebsd11_nfstat      279
#define TARGET_FREEBSD_NR_freebsd11_nlstat      280
#define TARGET_FREEBSD_NR_preadv        289
#define TARGET_FREEBSD_NR_pwritev       290
                        /* 297 is freebsd4 fhstatfs */
#define TARGET_FREEBSD_NR_fhopen        298
#define TARGET_FREEBSD_NR_freebsd11_fhstat      299
#define TARGET_FREEBSD_NR_modnext       300
#define TARGET_FREEBSD_NR_modstat       301
#define TARGET_FREEBSD_NR_modfnext      302
#define TARGET_FREEBSD_NR_modfind       303
#define TARGET_FREEBSD_NR_kldload       304
#define TARGET_FREEBSD_NR_kldunload     305
#define TARGET_FREEBSD_NR_kldfind       306
#define TARGET_FREEBSD_NR_kldnext       307
#define TARGET_FREEBSD_NR_kldstat       308
#define
 TARGET_FREEBSD_NR_kldfirstmod   309
#define TARGET_FREEBSD_NR_getsid        310
#define TARGET_FREEBSD_NR_setresuid     311
#define TARGET_FREEBSD_NR_setresgid     312
                        /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return    314
#define TARGET_FREEBSD_NR_aio_suspend   315
#define TARGET_FREEBSD_NR_aio_cancel    316
#define TARGET_FREEBSD_NR_aio_error     317
                        /* 318 is freebsd6 aio_read */
                        /* 319 is freebsd6 aio_write */
                        /* 320 is freebsd6 lio_listio */
#define TARGET_FREEBSD_NR_yield 321
                        /* 322 is obsolete thr_sleep */
                        /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall      324
#define TARGET_FREEBSD_NR_munlockall    325
#define TARGET_FREEBSD_NR___getcwd      326
#define TARGET_FREEBSD_NR_sched_setparam        327
#define TARGET_FREEBSD_NR_sched_getparam
```

```
328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield   331
#define TARGET_FREEBSD_NR_sched_get_priority_max        332
#define TARGET_FREEBSD_NR_sched_get_priority_min        333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace        335
                        /* 336 is freebsd4 sendfile */
#define TARGET_FREEBSD_NR_kldsym        337
#define TARGET_FREEBSD_NR_jail  338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask   340
#define TARGET_FREEBSD_NR_sigsuspend    341
                        /* 342 is freebsd4 sigaction */
#define TARGET_FREEBSD_NR_sigpending    343
                        /* 344 is freebsd4 sigreturn */
#define TARGET_FREEBSD_NR_sigtimedwait  345
#define TARGET_FREEBSD_NR_sigwaitinfo   346
#define TARGET_FREEBSD_NR___acl_get_file        347
#define TARGET_FREEBSD_NR___acl_set_file
    348
#define TARGET_FREEBSD_NR___acl_get_fd  349
#define TARGET_FREEBSD_NR___acl_set_fd  350
#define TARGET_FREEBSD_NR___acl_delete_file     351
#define TARGET_FREEBSD_NR___acl_delete_fd       352
#define TARGET_FREEBSD_NR___acl_aclcheck_file   353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd     354
#define TARGET_FREEBSD_NR_extattrctl    355
#define TARGET_FREEBSD_NR_extattr_set_file      356
#define TARGET_FREEBSD_NR_extattr_get_file      357
#define TARGET_FREEBSD_NR_extattr_delete_file   358
#define TARGET_FREEBSD_NR_aio_waitcomplete      359
#define TARGET_FREEBSD_NR_getresuid     360
#define TARGET_FREEBSD_NR_getresgid     361
#define TARGET_FREEBSD_NR_kqueue        362
#define TARGET_FREEBSD_NR_freebsd11_kevent      363
                        /* 364 is obsolete __cap_get_proc */
                        /* 365 is obsolete __cap_set_proc */
                        /* 366 is obsolete __cap_get_fd */
                        /* 367 is obsolete
 __cap_get_file */
                        /* 368 is obsolete __cap_set_fd */
                        /* 369 is obsolete __cap_set_file */
#define TARGET_FREEBSD_NR_extattr_set_fd        371
#define TARGET_FREEBSD_NR_extattr_get_fd        372
#define TARGET_FREEBSD_NR_extattr_delete_fd     373
#define TARGET_FREEBSD_NR___setugid     374
```

```
                        /* 375 is obsolete nfsclnt */
#define TARGET_FREEBSD_NR_eaccess       376
#define TARGET_FREEBSD_NR_afs3_syscall  377
#define TARGET_FREEBSD_NR_nmount        378
                        /* 379 is obsolete kse_exit */
                        /* 380 is obsolete kse_wakeup */
                        /* 381 is obsolete kse_create */
                        /* 382 is obsolete kse_thr_interrupt */
                        /* 383 is obsolete kse_release */
#define TARGET_FREEBSD_NR___mac_get_proc        384
#define TARGET_FREEBSD_NR___mac_set_proc        385
#define TARGET_FREEBSD_NR___mac_get_fd
  386
#define TARGET_FREEBSD_NR___mac_get_file        387
#define TARGET_FREEBSD_NR___mac_set_fd  388
#define TARGET_FREEBSD_NR___mac_set_file        389
#define TARGET_FREEBSD_NR_kenv  390
#define TARGET_FREEBSD_NR_lchflags      391
#define TARGET_FREEBSD_NR_uuidgen       392
#define TARGET_FREEBSD_NR_sendfile      393
#define TARGET_FREEBSD_NR_mac_syscall   394
#define TARGET_FREEBSD_NR_freebsd11_getfsstat   395
#define TARGET_FREEBSD_NR_freebsd11_statfs      396
#define TARGET_FREEBSD_NR_freebsd11_fstatfs     397
#define TARGET_FREEBSD_NR_freebsd11_fhstatfs    398
#define TARGET_FREEBSD_NR_ksem_close    400
#define TARGET_FREEBSD_NR_ksem_post     401
#define TARGET_FREEBSD_NR_ksem_wait     402
#define TARGET_FREEBSD_NR_ksem_trywait  403
#define TARGET_FREEBSD_NR_ksem_init     404
#define TARGET_FREEBSD_NR_ksem_open     405
#define TARGET_FREEBSD_NR_ksem_unlink   406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define
 TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link        410
#define TARGET_FREEBSD_NR___mac_set_link        411
#define TARGET_FREEBSD_NR_extattr_set_link      412
#define TARGET_FREEBSD_NR_extattr_get_link      413
#define TARGET_FREEBSD_NR_extattr_delete_link   414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction     416
#define TARGET_FREEBSD_NR_sigreturn     417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff       424
```

```
#define TARGET_FREEBSD_NR___acl_get_link        425
#define TARGET_FREEBSD_NR___acl_set_link        426
#define TARGET_FREEBSD_NR___acl_delete_link     427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait       429
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit      431
#define TARGET_FREEBSD_NR_thr_self      432
#define TARGET_FREEBSD_NR_thr_kill
    433
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd       437
#define TARGET_FREEBSD_NR_extattr_list_file     438
#define TARGET_FREEBSD_NR_extattr_list_link     439
                        /* 440 is obsolete kse_switchin */
#define TARGET_FREEBSD_NR_ksem_timedwait        441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake      443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon       446
#define TARGET_FREEBSD_NR_getauid       447
#define TARGET_FREEBSD_NR_setauid       448
#define TARGET_FREEBSD_NR_getaudit      449
#define TARGET_FREEBSD_NR_setaudit      450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl      453
#define TARGET_FREEBSD_NR__umtx_op      454
#define TARGET_FREEBSD_NR_thr_new       455
#define TARGET_FREEBSD_NR_sigqueue
 456
#define TARGET_FREEBSD_NR_kmq_open      457
#define TARGET_FREEBSD_NR_kmq_setattr   458
#define TARGET_FREEBSD_NR_kmq_timedreceive      459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify    461
#define TARGET_FREEBSD_NR_kmq_unlink    462
#define TARGET_FREEBSD_NR_abort2        463
#define TARGET_FREEBSD_NR_thr_set_name  464
#define TARGET_FREEBSD_NR_aio_fsync     465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff  471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg  472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov      473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg  474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite        476
```

```
#define TARGET_FREEBSD_NR_mmap  477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate      479
#define TARGET_FREEBSD_NR_ftruncate     480
#define TARGET_FREEBSD_NR_thr_kill2     481
#define TARGET_FREEBSD_NR_freebsd12_shm_open    482
#define
 TARGET_FREEBSD_NR_shm_unlink    483
#define TARGET_FREEBSD_NR_cpuset        484
#define TARGET_FREEBSD_NR_cpuset_setid  485
#define TARGET_FREEBSD_NR_cpuset_getid  486
#define TARGET_FREEBSD_NR_cpuset_getaffinity    487
#define TARGET_FREEBSD_NR_cpuset_setaffinity    488
#define TARGET_FREEBSD_NR_faccessat     489
#define TARGET_FREEBSD_NR_fchmodat      490
#define TARGET_FREEBSD_NR_fchownat      491
#define TARGET_FREEBSD_NR_fexecve       492
#define TARGET_FREEBSD_NR_freebsd11_fstatat     493
#define TARGET_FREEBSD_NR_futimesat     494
#define TARGET_FREEBSD_NR_linkat        495
#define TARGET_FREEBSD_NR_mkdirat       496
#define TARGET_FREEBSD_NR_mkfifoat      497
#define TARGET_FREEBSD_NR_freebsd11_mknodat     498
#define TARGET_FREEBSD_NR_openat        499
#define TARGET_FREEBSD_NR_readlinkat    500
#define TARGET_FREEBSD_NR_renameat      501
#define TARGET_FREEBSD_NR_symlinkat     502
#define TARGET_FREEBSD_NR_unlinkat      503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define
 TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get      506
#define TARGET_FREEBSD_NR_jail_set      507
#define TARGET_FREEBSD_NR_jail_remove   508
#define TARGET_FREEBSD_NR_freebsd12_closefrom   509
#define TARGET_FREEBSD_NR___semctl      510
#define TARGET_FREEBSD_NR_msgctl        511
#define TARGET_FREEBSD_NR_shmctl        512
#define TARGET_FREEBSD_NR_lpathconf     513
                        /* 514 is obsolete cap_new */
#define TARGET_FREEBSD_NR___cap_rights_get      515
#define TARGET_FREEBSD_NR_cap_enter     516
#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork        518
#define TARGET_FREEBSD_NR_pdkill        519
#define TARGET_FREEBSD_NR_pdgetpid      520
#define TARGET_FREEBSD_NR_pselect       522
#define TARGET_FREEBSD_NR_getloginclass 523
```

```
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct        525
#define TARGET_FREEBSD_NR_rctl_get_rules        526
#define TARGET_FREEBSD_NR_rctl_get_limits
    527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule      529
#define TARGET_FREEBSD_NR_posix_fallocate       530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_wait6 532
#define TARGET_FREEBSD_NR_cap_rights_limit      533
#define TARGET_FREEBSD_NR_cap_ioctls_limit      534
#define TARGET_FREEBSD_NR_cap_ioctls_get        535
#define TARGET_FREEBSD_NR_cap_fcntls_limit      536
#define TARGET_FREEBSD_NR_cap_fcntls_get        537
#define TARGET_FREEBSD_NR_bindat        538
#define TARGET_FREEBSD_NR_connectat     539
#define TARGET_FREEBSD_NR_chflagsat     540
#define TARGET_FREEBSD_NR_accept4       541
#define TARGET_FREEBSD_NR_pipe2 542
#define TARGET_FREEBSD_NR_aio_mlock     543
#define TARGET_FREEBSD_NR_procctl       544
#define TARGET_FREEBSD_NR_ppoll 545
#define TARGET_FREEBSD_NR_futimens      546
#define TARGET_FREEBSD_NR_utimensat     547
                        /* 548 is obsolete numa_getaffinity
 */
                        /* 549 is obsolete numa_setaffinity */
#define TARGET_FREEBSD_NR_fdatasync     550
#define TARGET_FREEBSD_NR_fstat 551
#define TARGET_FREEBSD_NR_fstatat       552
#define TARGET_FREEBSD_NR_fhstat        553
#define TARGET_FREEBSD_NR_getdirentries 554
#define TARGET_FREEBSD_NR_statfs        555
#define TARGET_FREEBSD_NR_fstatfs       556
#define TARGET_FREEBSD_NR_getfsstat     557
#define TARGET_FREEBSD_NR_fhstatfs      558
#define TARGET_FREEBSD_NR_mknodat       559
#define TARGET_FREEBSD_NR_kevent        560
#define TARGET_FREEBSD_NR_cpuset_getdomain      561
#define TARGET_FREEBSD_NR_cpuset_setdomain      562
#define TARGET_FREEBSD_NR_getrandom     563
#define TARGET_FREEBSD_NR_getfhat       564
#define TARGET_FREEBSD_NR_fhlink        565
#define TARGET_FREEBSD_NR_fhlinkat      566
#define TARGET_FREEBSD_NR_fhreadlink    567
#define TARGET_FREEBSD_NR_funlinkat     568
#define TARGET_FREEBSD_NR_copy_file_range       569
```

```
#define TARGET_FREEBSD_NR___sysctlbyname
        570
#define TARGET_FREEBSD_NR_shm_open2     571
#define TARGET_FREEBSD_NR_shm_rename    572
#define TARGET_FREEBSD_NR_sigfastblock  573
#define TARGET_FREEBSD_NR___realpathat  574
#define TARGET_FREEBSD_NR_close_range   575
#define TARGET_FREEBSD_NR_rpctls_syscall        576
#define TARGET_FREEBSD_NR_MAXSYSCALL    577
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==========

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
files in both source form and compiled form.

References:
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

Replace BSD 2-Clause License with BSD + Patent License removing the need for
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https://lists.01.org/pipermail/edk2-devel/2019-February/036260.html
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Contributions.txt: TianoCore Contribution Agreement 1.1

```
  ======================
  = Code Contributions =
  ======================

  To make a contribution to a TianoCore project, follow these steps.
  1. Create a change description in the format specified below to
     use in the source control commit log.
  2. Your commit message must include your "Signed-off-by" signature,
     and "Contributed-under" message.
  3. Your "Contributed-under" message
explicitly states that the
     contribution is made under the terms of the specified
     contribution agreement.  Your "Contributed-under" message
     must include the name of contribution agreement and version.
     For example: Contributed-under: TianoCore Contribution Agreement 1.1
     The "TianoCore Contribution Agreement" is included below in
     this document.
  4. Submit your code to the TianoCore project using the process
     that the project documents on its web page.  If the process is
     not documented, then submit the code on development email list
     for the project.
  5. It is preferred that contributions are submitted using the same
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     accepted.

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```

review will be required.

```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
```

* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

==========
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==========

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==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.
4. Submit your code to the TianoCore project using the process
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>
---

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===
```

* "CodeModule" is a short idenfier for the affected code. For
example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
the change. Each line should be less than ~70 characters.
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John R. Hauser
2018 January 20

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*/
/*
* Intel general target stuff that's common to all i386 details
*
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*/

#ifndef TARGET_H
#define TARGET_H

/*
* i386 doesn't 'lump' the registers for 64-bit args.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
   return false;
}

#endif /* TARGET_H */
#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H
```

```
#define TARGET_NSIG     32  /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
  abi_long    ss_sp;
  abi_ulong   ss_size;
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
  int         sival_int;
  abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
  int32_t     _signo;
  int32_t     _code;
  int32_t     _errno;
#if TARGET_ABI_BITS == 64
  int32_t     _pad;
#endif
  union {
     struct {
        int32_t            _pid;
        int32_t
       _uid;
        target_sigval_t    _value;
     } _rt;

     struct {
        int32_t            _pid;
        int32_t            _uid;
        int32_t            _struct;
        /* clock_t          _utime; */
```

```
        /* clock_t          _stime; */
      } _child;

      struct {
        abi_ulong           _addr;
        int32_t             _trap;
      } _fault;

      struct {
        long                _band;
        int                 _fd;
      } _poll;
  } _reason;
};

typedef union target_siginfo {
  int8_t     si_pad[128];
  struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
#define TARGET_TRAP_TRACE   2


#endif /* TARGET_OS_SIGINFO_H
 */
/*
* Emulation of BSD signals
*
* Copyright (c) 2013 Stacey Son
*
* SPDX-License-Identifier: GPL-2.0-or-later
*/

#ifndef SIGNAL_COMMON_H
#define SIGNAL_COMMON_H

/**
* block_signals: block all signals while handling this guest syscall
*
```

```
* Block all signals, and arrange that the signal mask is returned to
* its correct value for the guest before we resume execution of guest code.
* If this function returns non-zero, then the caller should immediately
* return -TARGET_ERESTARTSYS to the main loop, which will take the pending
* signal and restart execution of the syscall.
* If block_signals() returns zero, then the caller can continue with
* emulation of the system call knowing that no signals can be taken
* (and therefore that no race conditions will result).
* This should only be called once, because if it is called a second time
* it will always return non-zero. (Think of it like a mutex that can't
* be recursively locked.)
* Signals will be unblocked again by process_pending_signals().
 *
* Return value: non-zero if there was a pending signal, zero if not.
*/
int block_signals(void); /* Returns non zero if signal pending */

long do_rt_sigreturn(CPUArchState *env);
int do_sigaction(int sig, const struct target_sigaction *act,
             struct target_sigaction *oact);
abi_long do_sigaltstack(abi_ulong uss_addr, abi_ulong uoss_addr, abi_ulong sp);
long do_sigreturn(CPUArchState *env, abi_ulong addr);
void force_sig_fault(int sig, int code, abi_ulong addr);
void host_to_target_siginfo(target_siginfo_t *tinfo, const siginfo_t *info);
int host_to_target_signal(int sig);
void host_to_target_sigset(target_sigset_t *d, const sigset_t *s);
void process_pending_signals(CPUArchState *env);
void queue_signal(CPUArchState *env, int sig, int si_type,
               target_siginfo_t *info);
void signal_init(void);
int target_to_host_signal(int sig);
void target_to_host_sigset(sigset_t *d, const target_sigset_t *s);

/*
* Within QEMU the top 8 bits
 of si_code indicate which of the parts of the
* union in target_siginfo is valid. This only applies between
* host_to_target_siginfo_noswap() and tswap_siginfo(); it does not appear
* either within host siginfo_t or in target_siginfo structures which we get
* from the guest userspace program. Linux kernels use this internally, but BSD
* kernels don't do this, but its a useful abstraction.
*
* The linux-user version of this uses the top 16 bits, but FreeBSD's SI_USER
* and other signal independent SI_ codes have bit 16 set, so we only use the top
* byte instead.
*
* For FreeBSD, we have si_pid, si_uid, si_status, and si_addr always. Linux and
* {Open,Net}BSD have a different approach (where their reason field is larger,
```

```
* but whose siginfo has fewer fields always).
*
* QEMU_SI_CAPSICUM is currently only FreeBSD 14 current only, so only define
* it where _capsicum is available.
*/
#define QEMU_SI_NOINFO   0      /* nothing other than si_signo valid */
#define QEMU_SI_FAULT
    1      /* _fault is valid in _reason */
#define QEMU_SI_TIMER    2      /* _timer is valid in _reason */
#define QEMU_SI_MESGQ    3      /* _mesgq is valid in _reason */
#define QEMU_SI_POLL     4      /* _poll is valid in _reason */
#if defined(__FreeBSD_version) && __FreeBSD_version >= 1400026
#define QEMU_SI_CAPSICUM 5      /* _capsicum is valid in _reason */
#endif

#endif
```

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```
/*
*  x86_64 sysarch() syscall emulation
*
*
```

```
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
  abi_long ret = 0;
  abi_ulong val;
  int idx;

  switch (op) {
  case TARGET_FREEBSD_AMD64_SET_GSBASE:
   case TARGET_FREEBSD_AMD64_SET_FSBASE:
     if (op == TARGET_FREEBSD_AMD64_SET_GSBASE) {
        idx = R_GS;
     } else {
        idx = R_FS;
     }
     if (get_user(val, parms, abi_ulong)) {
        return -TARGET_EFAULT;
     }
     cpu_x86_load_seg(env, idx, 0);
     env->segs[idx].base = val;
     break;

  case TARGET_FREEBSD_AMD64_GET_GSBASE:
  case TARGET_FREEBSD_AMD64_GET_FSBASE:
     if (op == TARGET_FREEBSD_AMD64_GET_GSBASE) {
        idx = R_GS;
     } else {
        idx = R_FS;
     }
```

```
        val = env->segs[idx].base;
        if (put_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        break;

    /* XXX handle the others... */
    default:
        ret = -TARGET_EINVAL;
        break;
    }
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4, abi_long
 arg5, abi_long arg6)
{

    gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
        TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /* TARGET_ARCH_SYSARCH_H */
#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H

#define TARGET_NSIG     32   /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
    abi_long    ss_sp;
    abi_ulong   ss_size;
    abi_long    ss_flags;
} target_stack_t;

typedef struct {
    uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
    abi_ulong   _sa_handler;
    int32_t     sa_flags;
    target_sigset_t sa_mask;
};
```

```
/* Compare to sys/siginfo.h */
typedef union target_sigval {
   int         sival_int;
   abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
   int32_t     _signo;
   int32_t     _code;
   int32_t     _errno;
#if TARGET_ABI_BITS == 64
   int32_t     _pad;
#endif
   union {
      struct {
         int32_t             _pid;
         int32_t
        _uid;
         target_sigval_t    _value;
      } _rt;

      struct {
         int32_t             _pid;
         int32_t             _uid;
         int32_t             _struct;
         /* clock_t          _utime; */
         /* clock_t          _stime; */
      } _child;

      struct {
         abi_ulong           _addr;
         int32_t             _trap;
      } _fault;

      struct {
         long                _band;
         int                 _fd;
      } _poll;
   } _reason;
};

typedef union target_siginfo {
   int8_t     si_pad[128];
   struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
```

```
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
#define TARGET_TRAP_TRACE   2


#endif /* TARGET_OS_SIGINFO_H
 */
/*
*  x86_64 ELF definitions
*
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*/

#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x01021000
#define elf_check_arch(x) (((x) == ELF_ARCH))

#define ELF_HWCAP      0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define ELF_CLASS      ELFCLASS64
#define ELF_DATA
   ELFDATA2LSB
#define ELF_ARCH       EM_X86_64

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096
```

```
#endif /* TARGET_ARCH_ELF_H */
/*
*  arm cpu system call stubs
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*/

#ifndef ARM_TARGET_SYSCALL_H
#define ARM_TARGET_SYSCALL_H

struct target_pt_regs {
   abi_long uregs[17];
};

#define ARM_cpsr    uregs[16]
#define ARM_pc      uregs[15]
#define ARM_lr      uregs[14]
#define ARM_sp      uregs[13]
#define ARM_ip      uregs[12]
#define
 ARM_fp      uregs[11]
#define ARM_r10     uregs[10]
#define ARM_r9      uregs[9]
#define ARM_r8      uregs[8]
#define ARM_r7      uregs[7]
#define ARM_r6      uregs[6]
#define ARM_r5      uregs[5]
#define ARM_r4      uregs[4]
#define ARM_r3      uregs[3]
#define ARM_r2      uregs[2]
#define ARM_r1      uregs[1]
#define ARM_r0      uregs[0]

#define ARM_SYSCALL_BASE    0 /* XXX: FreeBSD only */
```

```
#define TARGET_FREEBSD_ARM_SYNC_ICACHE      0
#define TARGET_FREEBSD_ARM_DRAIN_WRITEBUF   1
#define TARGET_FREEBSD_ARM_SET_TP       2
#define TARGET_FREEBSD_ARM_GET_TP       3

#define TARGET_HW_MACHINE       "arm"
#define TARGET_HW_MACHINE_ARCH  "armv7"

#endif /* ARM_TARGET_SYSCALL_H */
bsd_user_ss.add(files(
 'os-stat.c',
 'os-proc.c',
 'os-sys.c',
 'os-syscall.c',
))
/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*
* System call numbers.
*
* created from;        OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid
    23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
```

```
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin
   50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer
   86
#define TARGET_OPENBSD_NR_dup2        90
```

```
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend  111
#define TARGET_OPENBSD_NR_gettimeofday        116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename
    128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_setgid      181
#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segclean        186
#define TARGET_OPENBSD_NR_lfs_segwait
```

```
187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR_getdirentries       196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___syscall   198
#define TARGET_OPENBSD_NR_lseek       199
#define TARGET_OPENBSD_NR_truncate    200
#define TARGET_OPENBSD_NR_ftruncate   201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspioctl   208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime
    232
#define TARGET_OPENBSD_NR_clock_settime       233
#define TARGET_OPENBSD_NR_clock_getres        234
#define TARGET_OPENBSD_NR_nanosleep   240
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_issetugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
#define TARGET_OPENBSD_NR_fhopen      264
#define TARGET_OPENBSD_NR_preadv      267
#define TARGET_OPENBSD_NR_pwritev     268
#define TARGET_OPENBSD_NR_kqueue      269
#define TARGET_OPENBSD_NR_kevent      270
#define TARGET_OPENBSD_NR_mlockall    271
#define TARGET_OPENBSD_NR_munlockall  272
#define TARGET_OPENBSD_NR_getpeereid  273
#define TARGET_OPENBSD_NR_getresuid   281
#define TARGET_OPENBSD_NR_setresuid   282
#define TARGET_OPENBSD_NR_getresgid   283
```

```
#define TARGET_OPENBSD_NR_setresgid
   284
#define TARGET_OPENBSD_NR_mquery      286
#define TARGET_OPENBSD_NR_closefrom   287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget      289
#define TARGET_OPENBSD_NR_semop       290
#define TARGET_OPENBSD_NR_stat        291
#define TARGET_OPENBSD_NR_fstat       292
#define TARGET_OPENBSD_NR_lstat       293
#define TARGET_OPENBSD_NR_fhstat      294
#define TARGET_OPENBSD_NR___semctl    295
#define TARGET_OPENBSD_NR_shmctl      296
#define TARGET_OPENBSD_NR_msgctl      297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleep    300
#define TARGET_OPENBSD_NR_thrwakeup   301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert        303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs
    309

/* syscall flags from machine/trap.h */

/*      $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $       */
/*      $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/*
*  netbsd ELF definitions
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*/

#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
```

```
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                          abi_ulong stringp,
                                          struct elfhdr *exec,
                                          abi_ulong load_addr,
                                           abi_ulong load_bias,
                                          abi_ulong interp_load_addr,
                                          struct image_info *info)
{
      abi_ulong sp;
      int size;
      abi_ulong u_platform;
      const char *k_platform;
      const int n = sizeof(elf_addr_t);

      sp = p;
      u_platform = 0;
      k_platform = ELF_PLATFORM;
      if (k_platform) {
         size_t len = strlen(k_platform) + 1;
         sp -= (len + n - 1) & ~(n - 1);
         u_platform = sp;
```

```
        /* FIXME - check return value of memcpy_to_target() for failure */
        memcpy_to_target(sp, k_platform, len);
    }
    /*
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    if (k_platform) {
        size += 2;
    }
#ifdef DLINFO_ARCH_ITEMS
    size += DLINFO_ARCH_ITEMS * 2;
#endif
     size += envc + argc + 2;
    size += 1;                      /* argc itself */
    size *= n;
    if (size & 15) {
        sp -= 16 - (size & 15);
    }

    /*
     * NetBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
        sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
      } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    NEW_AUX_ENT(AT_UID,
 (abi_ulong)getuid());
    NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
    NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
    if (k_platform) {
        NEW_AUX_ENT(AT_PLATFORM, u_platform);
```

```
	}
#ifdef ARCH_DLINFO
	/*
	 * ARCH_DLINFO must come last so platform specific code can enforce
	 * special alignment requirements on the AUXV if necessary (eg. PPC).
	 */
	ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

	sp = loader_build_argptr(envc, argc, sp, stringp);
	return sp;
}

#endif /* TARGET_OS_ELF_H */
```

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```
/*
*  NetBSD setup_initial_stack() implementation.
*
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*/

#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
   abi_ulong *stringp)
{
   int i;
   abi_ulong stack_base;

   stack_base
 = (target_stkbas + target_stksiz) -
               MAX_ARG_PAGES * TARGET_PAGE_SIZE;
   if (p) {
       *p = stack_base;
   }
   if (stringp) {
       *stringp = stack_base;
   }

   for (i = 0; i < MAX_ARG_PAGES; i++) {
       if (bprm->page[i]) {
           info->rss++;
           if (!memcpy_to_target(stack_base, bprm->page[i],
                     TARGET_PAGE_SIZE)) {
               errno = EFAULT;
               return -1;
           }
           g_free(bprm->page[i]);
       }
       stack_base += TARGET_PAGE_SIZE;
   }

   return 0;
}

#endif /* TARGET_OS_STACK_H */
/* SPDX-License-Identifier: BSD-3-Clause */
/*
* QEMU internal errno values for implementing user-only POSIX.
```

```
*
*  Copyright (c) 2021 Linaro, Ltd.
*/

#ifndef SPECIAL_ERRNO_H
#define SPECIAL_ERRNO_H

/*
* All of these are QEMU internal, not visible to the guest.
* They should be chosen so as to not overlap with any host
* or guest errno.
*/

/*
* This is returned when a system call should be restarted, to tell the
* main loop that it should wind the guest PC backwards so it will
* re-execute the syscall after handling any pending signals.
*/
#define QEMU_ERESTARTSYS  255

#endif /* SPECIAL_ERRNO_H */
/*
*  i386 sysarch system call emulation
*
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
```

```
  abi_long ret = 0;
  abi_ulong val;
  int idx;

  switch
 (op) {
  case TARGET_FREEBSD_I386_SET_GSBASE:
  case TARGET_FREEBSD_I386_SET_FSBASE:
      if (op == TARGET_FREEBSD_I386_SET_GSBASE) {
          idx = R_GS;
      } else {
          idx = R_FS;
      }
      if (get_user(val, parms, abi_ulong)) {
          return -TARGET_EFAULT;
      }
      cpu_x86_load_seg(env, idx, 0);
      env->segs[idx].base = val;
      break;

  case TARGET_FREEBSD_I386_GET_GSBASE:
  case TARGET_FREEBSD_I386_GET_FSBASE:
      if (op == TARGET_FREEBSD_I386_GET_GSBASE) {
          idx = R_GS;
      } else {
          idx = R_FS;
      }
      val = env->segs[idx].base;
      if (put_user(val, parms, abi_ulong)) {
          return -TARGET_EFAULT;
      }
      break;

  /* XXX handle the others... */
  default:
      ret = -TARGET_EINVAL;
      break;
  }
  return ret;
}

static inline void do_freebsd_arch_print_sysarch(
      const struct syscallname *name, abi_long arg1, abi_long arg2,
      abi_long
 arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

  gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
```

```
    TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /* TARGET_ARCH_SYSARCH_H */
/*
*  freebsd ELF definitions
*
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*/

#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"

#define bsd_get_ncpu() 1 /* until we pull in bsd-proc.[hc] */

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE
 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

/* XXX Look at the other conflicting AT_* values. */
#define FREEBSD_AT_NCPUS     19
```

```
#define FREEBSD_AT_HWCAP     25
#define FREEBSD_AT_HWCAP2    26

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 14

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,

                          abi_ulong stringp,
                                struct elfhdr *exec,
                                abi_ulong load_addr,
                                abi_ulong load_bias,
                                abi_ulong interp_load_addr,
                                struct image_info *info)
{
      abi_ulong features, sp;
      int size;
      const int n = sizeof(elf_addr_t);

      target_auxents_sz = 0;
      sp = p;
      /*
       * Force 16 byte _final_ alignment here for generality.
       */
      sp = sp & ~(abi_ulong)15;
      size = (DLINFO_ITEMS + 1) * 2;
      size += envc + argc + 2;
      size += 1;                    /* argc itself */
      size *= n;
      if (size & 15) {
```

```
        sp -= 16 - (size & 15);
    }

    /*
     * FreeBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \

        sp -= n; put_user_ual(val, sp);     \
         sp -= n; put_user_ual(id, sp);      \
         target_auxents_sz += 2 * n;         \
       } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(FREEBSD_AT_NCPUS, (abi_ulong)bsd_get_ncpu());
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    features = ELF_HWCAP;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP, features);
#ifdef ELF_HWCAP2
    features = ELF_HWCAP2;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP2, features);
#endif
    NEW_AUX_ENT(AT_UID, (abi_ulong)getuid());

  NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    target_auxents = sp; /* Note where the aux entries are in the target */
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}
```

#endif /* TARGET_OS_ELF_H */
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#ifndef QEMU_OS_H
#define QEMU_OS_H

/* qemu/osdep.h pulls in the rest */

#include <sys/acl.h>
#include <sys/mount.h>
#include <sys/timex.h>
#include <sys/rtprio.h>
#include <sys/select.h>
#include <sys/socket.h>
#include <netinet/in.h>

struct freebsd11_stat;

/*
 os-stat.c */
abi_long h2t_freebsd11_stat(abi_ulong target_addr,
```

```
        struct freebsd11_stat *host_st);
abi_long h2t_freebsd11_nstat(abi_ulong target_addr,
        struct freebsd11_stat *host_st);
abi_long t2h_freebsd_fhandle(fhandle_t *host_fh, abi_ulong target_addr);
abi_long h2t_freebsd_fhandle(abi_ulong target_addr, fhandle_t *host_fh);
abi_long h2t_freebsd11_statfs(abi_ulong target_addr,
    struct freebsd11_statfs *host_statfs);
abi_long target_to_host_fcntl_cmd(int cmd);
abi_long h2t_freebsd_stat(abi_ulong target_addr,
        struct stat *host_st);
abi_long h2t_freebsd_statfs(abi_ulong target_addr,
    struct statfs *host_statfs);

#endif /* QEMU_OS_H */
/*
*  FreeBSD setup_initial_stack() implementation.
*
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#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include <sys/param.h>
#include "target_arch_sigtramp.h"
#include "qemu/guest-random.h"

/*
* The initial FreeBSD stack is as follows:
* (see kern/kern_exec.c exec_copyout_strings() )
*
 *  Hi Address -> char **ps_argvstr  (struct ps_strings for ps, w, etc.)
*               unsigned ps_nargvstr
*               char **ps_envstr
*  PS_STRINGS -> unsigned ps_nenvstr
```

```
*
*               machine dependent sigcode (sv_sigcode of size
*                                 sv_szsigcode)
*
*               execpath          (absolute image path for rtld)
*
*               SSP Canary        (sizeof(long) * 8)
*
*               page sizes array  (usually sizeof(u_long) )
*
*  "destp" ->    argv, env strings (up to 262144 bytes)
*/
static inline int setup_initial_stack(struct bsd_binprm *bprm,
      abi_ulong *ret_addr, abi_ulong *stringp)
{
   int i;
   abi_ulong stack_hi_addr;
   size_t execpath_len, stringspace;
   abi_ulong destp, argvp, envp, p;
   struct target_ps_strings ps_strs;
   char canary[sizeof(abi_long) * 8];

   stack_hi_addr = p = target_stkbas + target_stksiz;

   /* Save some space for ps_strings. */
   p -= sizeof(struct target_ps_strings);

    /* Add machine dependent sigcode. */
   p -= TARGET_SZSIGCODE;
   if (setup_sigtramp(p, (unsigned)offsetof(struct target_sigframe, sf_uc),
         TARGET_FREEBSD_NR_sigreturn)) {
      errno = EFAULT;
      return -1;
   }
   if (bprm->fullpath) {
      execpath_len = strlen(bprm->fullpath) + 1;
      p -= roundup(execpath_len, sizeof(abi_ulong));
      if (memcpy_to_target(p, bprm->fullpath, execpath_len)) {
         errno = EFAULT;
         return -1;
      }
   }
   /* Add canary for SSP. */
   qemu_guest_getrandom_nofail(canary, sizeof(canary));
   p -= roundup(sizeof(canary), sizeof(abi_ulong));
   if (memcpy_to_target(p, canary, sizeof(canary))) {
      errno = EFAULT;
      return -1;
```

```
  }
  /* Add page sizes array. */
  p -= sizeof(abi_ulong);
  if (put_user_ual(TARGET_PAGE_SIZE, p)) {
      errno = EFAULT;
      return -1;
  }
  /*
   * Deviate from FreeBSD stack layout: force stack to new page here

* so that signal trampoline is not sharing the page with user stack
   * frames. This is actively harmful in qemu as it marks pages with
   * code it translated as read-only, which is somewhat problematic
   * for user trying to use the stack as intended.
   */
  p = rounddown(p, TARGET_PAGE_SIZE);

  /* Calculate the string space needed */
  stringspace = 0;
  for (i = 0; i < bprm->argc; ++i) {
      stringspace += strlen(bprm->argv[i]) + 1;
  }
  for (i = 0; i < bprm->envc; ++i) {
      stringspace += strlen(bprm->envp[i]) + 1;
  }
  if (stringspace > TARGET_ARG_MAX) {
      errno = ENOMEM;
      return -1;
  }
  /* Make room for the argv and envp strings */
  destp = rounddown(p - stringspace, sizeof(abi_ulong));
  p = argvp = destp - (bprm->argc + bprm->envc + 2) * sizeof(abi_ulong);
  /* Remember the strings pointer */
  if (stringp) {
      *stringp = destp;
  }
  /*
   * Add argv strings.  Note that the argv[] vectors are added
by
   * loader_build_argptr()
   */
  /* XXX need to make room for auxargs */
  ps_strs.ps_argvstr = tswapl(argvp);
  ps_strs.ps_nargvstr = tswap32(bprm->argc);
  for (i = 0; i < bprm->argc; ++i) {
      size_t len = strlen(bprm->argv[i]) + 1;

      if (memcpy_to_target(destp, bprm->argv[i], len)) {
```

```
        errno = EFAULT;
        return -1;
    }
    if (put_user_ual(destp, argvp)) {
        errno = EFAULT;
        return -1;
    }
    argvp += sizeof(abi_ulong);
    destp += len;
}
if (put_user_ual(0, argvp)) {
    errno = EFAULT;
    return -1;
}
/*
 * Add env strings. Note that the envp[] vectors are added by
 * loader_build_argptr().
 */
envp = argvp + sizeof(abi_ulong);
ps_strs.ps_envstr = tswapl(envp);
ps_strs.ps_nenvstr = tswap32(bprm->envc);
for (i = 0; i < bprm->envc; ++i) {
    size_t len = strlen(bprm->envp[i]) + 1;

    if (memcpy_to_target(destp, bprm->envp[i],
len)) {
        errno = EFAULT;
        return -1;
    }
    if (put_user_ual(destp, envp)) {
        errno = EFAULT;
        return -1;
    }
    envp += sizeof(abi_ulong);
    destp += len;
}
if (put_user_ual(0, envp)) {
    errno = EFAULT;
    return -1;
}
if (memcpy_to_target(stack_hi_addr - sizeof(ps_strs), &ps_strs,
            sizeof(ps_strs))) {
    errno = EFAULT;
    return -1;
}

if (ret_addr) {
    *ret_addr = p;
```

```
  }

  return 0;
}

#endif /* TARGET_OS_STACK_H */
```

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```
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*/

#ifndef BSD_FILE_H
#define BSD_FILE_H

#include "qemu/path.h"

#define LOCK_PATH(p, arg)                   \
do {                                        \
   (p) = lock_user_string(arg);             \
   if ((p) == NULL) {
  \
       return -TARGET_EFAULT;               \
   }                                        \
} while (0)
```

```
#define UNLOCK_PATH(p, arg)     unlock_user(p, arg, 0)

#define LOCK_PATH2(p1, arg1, p2, arg2)      \
do {                                        \
   (p1) = lock_user_string(arg1);           \
   if ((p1) == NULL) {                      \
       return -TARGET_EFAULT;               \
   }                                        \
   (p2) = lock_user_string(arg2);           \
   if ((p2) == NULL) {                      \
       unlock_user(p1, arg1, 0);            \
       return -TARGET_EFAULT;               \
   }                                        \
} while (0)

#define UNLOCK_PATH2(p1, arg1, p2, arg2)    \
do {                                        \
   unlock_user(p2, arg2, 0);                \
   unlock_user(p1, arg1, 0);                \
} while (0)

struct iovec *lock_iovec(int type, abi_ulong target_addr, int count, int copy);
void unlock_iovec(struct iovec *vec, abi_ulong
 target_addr, int count, int copy);

int safe_open(const char *path, int flags, mode_t mode);
int safe_openat(int fd, const char *path, int flags, mode_t mode);

ssize_t safe_read(int fd, void *buf, size_t nbytes);
ssize_t safe_pread(int fd, void *buf, size_t nbytes, off_t offset);
ssize_t safe_readv(int fd, const struct iovec *iov, int iovcnt);
ssize_t safe_preadv(int fd, const struct iovec *iov, int iovcnt, off_t offset);

ssize_t safe_write(int fd, void *buf, size_t nbytes);
ssize_t safe_pwrite(int fd, void *buf, size_t nbytes, off_t offset);
ssize_t safe_writev(int fd, const struct iovec *iov, int iovcnt);
ssize_t safe_pwritev(int fd, const struct iovec *iov, int iovcnt, off_t offset);

/* read(2) */
static abi_long do_bsd_read(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long ret;
   void *p;

   p = lock_user(VERIFY_WRITE, arg2, arg3, 0);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
```

```
    ret = get_errno(safe_read(arg1, p, arg3));
    unlock_user(p, arg2,
  ret);

    return ret;
}

/* pread(2) */
static abi_long do_bsd_pread(void *cpu_env, abi_long arg1,
    abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
    abi_long ret;
    void *p;

    p = lock_user(VERIFY_WRITE, arg2, arg3, 0);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    if (regpairs_aligned(cpu_env) != 0) {
        arg4 = arg5;
        arg5 = arg6;
    }
    ret = get_errno(safe_pread(arg1, p, arg3, target_arg64(arg4, arg5)));
    unlock_user(p, arg2, ret);

    return ret;
}

/* readv(2) */
static abi_long do_bsd_readv(abi_long arg1, abi_long arg2, abi_long arg3)
{
    abi_long ret;
    struct iovec *vec = lock_iovec(VERIFY_WRITE, arg2, arg3, 0);

    if (vec != NULL) {
        ret = get_errno(safe_readv(arg1, vec, arg3));
        unlock_iovec(vec, arg2, arg3, 1);
    } else {
        ret = -host_to_target_errno(errno);
    }

    return ret;
}

/* preadv(2) */
static abi_long do_bsd_preadv(void *cpu_env, abi_long arg1,
    abi_long
```

```
 arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
   abi_long ret;
   struct iovec *vec = lock_iovec(VERIFY_WRITE, arg2, arg3, 1);

   if (vec != NULL) {
       if (regpairs_aligned(cpu_env) != 0) {
           arg4 = arg5;
           arg5 = arg6;
       }
       ret = get_errno(safe_preadv(arg1, vec, arg3, target_arg64(arg4, arg5)));
       unlock_iovec(vec, arg2, arg3, 0);
   } else {
       ret = -host_to_target_errno(errno);
   }

   return ret;
}

/* write(2) */
static abi_long do_bsd_write(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long nbytes, ret;
   void *p;

   /* nbytes < 0 implies that it was larger than SIZE_MAX. */
   nbytes = arg3;
   if (nbytes < 0) {
       return -TARGET_EINVAL;
   }
   p = lock_user(VERIFY_READ, arg2, nbytes, 1);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
   ret = get_errno(safe_write(arg1, p, arg3));
   unlock_user(p, arg2, 0);

   return ret;
}

/* pwrite(2) */
static abi_long
 do_bsd_pwrite(void *cpu_env, abi_long arg1,
   abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
   abi_long ret;
   void *p;
```

```
    p = lock_user(VERIFY_READ, arg2, arg3, 1);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    if (regpairs_aligned(cpu_env) != 0) {
        arg4 = arg5;
        arg5 = arg6;
    }
    ret = get_errno(safe_pwrite(arg1, p, arg3, target_arg64(arg4, arg5)));
    unlock_user(p, arg2, 0);

    return ret;
}

/* writev(2) */
static abi_long do_bsd_writev(abi_long arg1, abi_long arg2, abi_long arg3)
{
    abi_long ret;
    struct iovec *vec = lock_iovec(VERIFY_READ, arg2, arg3, 1);

    if (vec != NULL) {
        ret = get_errno(safe_writev(arg1, vec, arg3));
        unlock_iovec(vec, arg2, arg3, 0);
    } else {
        ret = -host_to_target_errno(errno);
    }

    return ret;
}

/* pwritev(2) */
static abi_long do_bsd_pwritev(void *cpu_env, abi_long arg1,
    abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long
 arg6)
{
    abi_long ret;
    struct iovec *vec = lock_iovec(VERIFY_READ, arg2, arg3, 1);

    if (vec != NULL) {
        if (regpairs_aligned(cpu_env) != 0) {
            arg4 = arg5;
            arg5 = arg6;
        }
        ret = get_errno(safe_pwritev(arg1, vec, arg3, target_arg64(arg4, arg5)));
        unlock_iovec(vec, arg2, arg3, 0);
    } else {
        ret = -host_to_target_errno(errno);
    }
```

```
   return ret;
}

/* open(2) */
static abi_long do_bsd_open(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(safe_open(path(p), target_to_host_bitmask(arg2,
             fcntl_flags_tbl), arg3));
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* openat(2) */
static abi_long do_bsd_openat(abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(safe_openat(arg1, path(p),
             target_to_host_bitmask(arg3, fcntl_flags_tbl),
 arg4));
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* close(2) */
static abi_long do_bsd_close(abi_long arg1)
{
   return get_errno(close(arg1));
}

/* fdatasync(2) */
static abi_long do_bsd_fdatasync(abi_long arg1)
{
   return get_errno(fdatasync(arg1));
}

/* fsync(2) */
static abi_long do_bsd_fsync(abi_long arg1)
```

```
{
   return get_errno(fsync(arg1));
}

/* closefrom(2) */
static abi_long do_bsd_closefrom(abi_long arg1)
{
   closefrom(arg1);  /* returns void */
   return get_errno(0);
}

/* revoke(2) */
static abi_long do_bsd_revoke(abi_long arg1)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(revoke(p)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* access(2) */
static abi_long do_bsd_access(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(access(path(p), arg2));
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* eaccess(2) */
static abi_long do_bsd_eaccess(abi_long
 arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(eaccess(path(p), arg2));
   UNLOCK_PATH(p, arg1);
```

```
   return ret;
}

/* faccessat(2) */
static abi_long do_bsd_faccessat(abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(faccessat(arg1, p, arg3, arg4)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* chdir(2) */
static abi_long do_bsd_chdir(abi_long arg1)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(chdir(p)); /* XXX  path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* fchdir(2) */
static abi_long do_bsd_fchdir(abi_long arg1)
{
   return get_errno(fchdir(arg1));
}

/* rename(2) */
static abi_long do_bsd_rename(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p1, *p2;

   LOCK_PATH2(p1, arg1, p2, arg2);
   ret = get_errno(rename(p1, p2)); /* XXX path(p1),
 path(p2) */
   UNLOCK_PATH2(p1, arg1, p2, arg2);

   return ret;
```

```
}

/* renameat(2) */
static abi_long do_bsd_renameat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg2, p2, arg4);
  ret = get_errno(renameat(arg1, p1, arg3, p2));
  UNLOCK_PATH2(p1, arg2, p2, arg4);

  return ret;
}

/* link(2) */
static abi_long do_bsd_link(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg1, p2, arg2);
  ret = get_errno(link(p1, p2)); /* XXX path(p1), path(p2) */
  UNLOCK_PATH2(p1, arg1, p2, arg2);

  return ret;
}

/* linkat(2) */
static abi_long do_bsd_linkat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5)
{
  abi_long ret;
  void *p1, *p2;

  LOCK_PATH2(p1, arg2, p2, arg4);
  ret = get_errno(linkat(arg1, p1, arg3, p2, arg5));
  UNLOCK_PATH2(p1, arg2, p2, arg4);

  return ret;
}

/* unlink(2) */
static abi_long do_bsd_unlink(abi_long
 arg1)
{
  abi_long ret;
```

```
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(unlink(p)); /* XXX path(p) */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* unlinkat(2) */
static abi_long do_bsd_unlinkat(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(unlinkat(arg1, p, arg3)); /* XXX path(p) */
  UNLOCK_PATH(p, arg2);

  return ret;
}

/* mkdir(2) */
static abi_long do_bsd_mkdir(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(mkdir(p, arg2)); /* XXX path(p) */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* mkdirat(2) */
static abi_long do_bsd_mkdirat(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(mkdirat(arg1, p, arg3));
  UNLOCK_PATH(p, arg2);

  return ret;
```

```
}

/* rmdir(2) */
static abi_long do_bsd_rmdir(abi_long arg1)
{
   abi_long
 ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(rmdir(p)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* undocumented __getcwd(char *buf, size_t len)  system call */
static abi_long do_bsd___getcwd(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
   ret = safe_syscall(SYS___getcwd, p, arg2);
   unlock_user(p, arg1, ret == 0 ? strlen(p) + 1 : 0);

   return get_errno(ret);
}

/* dup(2) */
static abi_long do_bsd_dup(abi_long arg1)
{
   return get_errno(dup(arg1));
}

/* dup2(2) */
static abi_long do_bsd_dup2(abi_long arg1, abi_long arg2)
{
   return get_errno(dup2(arg1, arg2));
}

/* truncate(2) */
static abi_long do_bsd_truncate(void *cpu_env, abi_long arg1,
       abi_long arg2, abi_long arg3, abi_long arg4)
{
```

```
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   if (regpairs_aligned(cpu_env) != 0) {
       arg2
 = arg3;
       arg3 = arg4;
   }
   ret = get_errno(truncate(p, target_arg64(arg2, arg3)));
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* ftruncate(2) */
static abi_long do_bsd_ftruncate(void *cpu_env, abi_long arg1,
       abi_long arg2, abi_long arg3, abi_long arg4)
{
   if (regpairs_aligned(cpu_env) != 0) {
       arg2 = arg3;
       arg3 = arg4;
   }
   return get_errno(ftruncate(arg1, target_arg64(arg2, arg3)));
}

/* acct(2) */
static abi_long do_bsd_acct(abi_long arg1)
{
   abi_long ret;
   void *p;

   if (arg1 == 0) {
       ret = get_errno(acct(NULL));
   } else {
       LOCK_PATH(p, arg1);
       ret = get_errno(acct(path(p)));
       UNLOCK_PATH(p, arg1);
   }
   return ret;
}

/* sync(2) */
static abi_long do_bsd_sync(void)
{
   sync();
   return 0;
}
```

```
/* mount(2) */
static abi_long do_bsd_mount(abi_long arg1, abi_long arg2, abi_long arg3,
      abi_long arg4)
{
   abi_long ret;
   void *p1, *p2;

   LOCK_PATH2(p1, arg1, p2, arg2);
   /*

  * XXX arg4 should be locked, but it isn't clear how to do that since it may
    * be not be a NULL-terminated string.
    */
   if (arg4 == 0) {
      ret = get_errno(mount(p1, p2, arg3, NULL)); /* XXX path(p2)? */
   } else {
      ret = get_errno(mount(p1, p2, arg3, g2h_untagged(arg4))); /* XXX path(p2)? */
   }
   UNLOCK_PATH2(p1, arg1, p2, arg2);

   return ret;
}

/* unmount(2) */
static abi_long do_bsd_unmount(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(unmount(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* nmount(2) */
static abi_long do_bsd_nmount(abi_long arg1, abi_long count,
      abi_long flags)
{
   abi_long ret;
   struct iovec *vec = lock_iovec(VERIFY_READ, arg1, count, 1);

   if (vec != NULL) {
      ret = get_errno(nmount(vec, count, flags));
      unlock_iovec(vec, arg1, count, 0);
   } else {
```

```
        return -TARGET_EFAULT;
    }

    return ret;
}

/*
 symlink(2) */
static abi_long do_bsd_symlink(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH2(p1, arg1, p2, arg2);
    ret = get_errno(symlink(p1, p2)); /* XXX path(p1), path(p2) */
    UNLOCK_PATH2(p1, arg1, p2, arg2);

    return ret;
}

/* symlinkat(2) */
static abi_long do_bsd_symlinkat(abi_long arg1, abi_long arg2,
        abi_long arg3)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH2(p1, arg1, p2, arg3);
    ret = get_errno(symlinkat(p1, arg2, p2)); /* XXX path(p1), path(p2) */
    UNLOCK_PATH2(p1, arg1, p2, arg3);

    return ret;
}

/* readlink(2) */
static abi_long do_bsd_readlink(CPUArchState *env, abi_long arg1,
        abi_long arg2, abi_long arg3)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH(p1, arg1);
    p2 = lock_user(VERIFY_WRITE, arg2, arg3, 0);
    if (p2 == NULL) {
        UNLOCK_PATH(p1, arg1);
        return -TARGET_EFAULT;
    }
    if (strcmp(p1, "/proc/curproc/file") == 0) {
```

```
        CPUState *cpu = env_cpu(env);
         TaskState *ts = (TaskState *)cpu->opaque;
        strncpy(p2, ts->bprm->fullpath, arg3);
        ret = MIN((abi_long)strlen(ts->bprm->fullpath), arg3);
    } else {
        ret = get_errno(readlink(path(p1), p2, arg3));
    }
    unlock_user(p2, arg2, ret);
    UNLOCK_PATH(p1, arg1);

    return ret;
}

/* readlinkat(2) */
static abi_long do_bsd_readlinkat(abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH(p1, arg2);
    p2 = lock_user(VERIFY_WRITE, arg3, arg4, 0);
    if (p2 == NULL) {
        UNLOCK_PATH(p1, arg2);
        return -TARGET_EFAULT;
    }
    ret = get_errno(readlinkat(arg1, p1, p2, arg4));
    unlock_user(p2, arg3, ret);
    UNLOCK_PATH(p1, arg2);

    return ret;
}

/* chmod(2) */
static abi_long do_bsd_chmod(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    void *p;

    LOCK_PATH(p, arg1);
    ret = get_errno(chmod(p, arg2)); /* XXX path(p)? */
    UNLOCK_PATH(p, arg1);

    return
  ret;
}

/* fchmod(2) */
```

```
static abi_long do_bsd_fchmod(abi_long arg1, abi_long arg2)
{
  return get_errno(fchmod(arg1, arg2));
}

/* lchmod(2) */
static abi_long do_bsd_lchmod(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(lchmod(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchmodat(2) */
static abi_long do_bsd_fchmodat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(fchmodat(arg1, p, arg3, arg4));
  UNLOCK_PATH(p, arg2);

  return ret;
}

/* pre-ino64 mknod(2) */
static abi_long do_bsd_freebsd11_mknod(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(syscall(SYS_freebsd11_mknod, p, arg2, arg3));
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* pre-ino64 mknodat(2) */
static abi_long do_bsd_freebsd11_mknodat(abi_long
```

```
 arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(syscall(SYS_freebsd11_mknodat, arg1, p, arg3, arg4));
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* post-ino64 mknodat(2) */
static abi_long do_bsd_mknodat(void *cpu_env, abi_long arg1,
       abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5,
       abi_long arg6)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
      /* 32-bit arch's use two 32 registers for 64 bit return value */
   if (regpairs_aligned(cpu_env) != 0) {
       ret = get_errno(mknodat(arg1, p, arg3, target_arg64(arg5, arg6)));
   } else {
       ret = get_errno(mknodat(arg1, p, arg3, target_arg64(arg4, arg5)));
   }
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* chown(2) */
static abi_long do_bsd_chown(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(chown(p, arg2, arg3)); /* XXX
 path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* fchown(2) */
```

```
static abi_long do_bsd_fchown(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  return get_errno(fchown(arg1, arg2, arg3));
}

/* lchown(2) */
static abi_long do_bsd_lchown(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(lchown(p, arg2, arg3)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchownat(2) */
static abi_long do_bsd_fchownat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(fchownat(arg1, p, arg3, arg4, arg5)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg2);

  return ret;
}

/* chflags(2) */
static abi_long do_bsd_chflags(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(chflags(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p,
 arg1);

  return ret;
}
```

```
/* lchflags(2) */
static abi_long do_bsd_lchflags(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(lchflags(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchflags(2) */
static abi_long do_bsd_fchflags(abi_long arg1, abi_long arg2)
{
  return get_errno(fchflags(arg1, arg2));
}

/* chroot(2) */
static abi_long do_bsd_chroot(abi_long arg1)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(chroot(p)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* flock(2) */
static abi_long do_bsd_flock(abi_long arg1, abi_long arg2)
{
  return get_errno(flock(arg1, arg2));
}

/* mkfifo(2) */
static abi_long do_bsd_mkfifo(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(mkfifo(p, arg2)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);
```

```
   return ret;
}

/* mkfifoat(2) */
static
 abi_long do_bsd_mkfifoat(abi_long arg1, abi_long arg2,
       abi_long arg3)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(mkfifoat(arg1, p, arg3));
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* pathconf(2) */
static abi_long do_bsd_pathconf(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(pathconf(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* lpathconf(2) */
static abi_long do_bsd_lpathconf(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(lpathconf(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* fpathconf(2) */
static abi_long do_bsd_fpathconf(abi_long arg1, abi_long arg2)
{
   return get_errno(fpathconf(arg1, arg2));
```

```
}

/* undelete(2) */
static abi_long do_bsd_undelete(abi_long arg1)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(undelete(p));
 /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

#endif /* BSD_FILE_H */
```

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```
TARGET_ARCH=arm
TARGET_XML_FILES= gdb-xml/arm-core.xml gdb-xml/arm-vfp.xml gdb-xml/arm-vfp3.xml gdb-xml/arm-vfp-
sysregs.xml gdb-xml/arm-neon.xml gdb-xml/arm-m-profile.xml gdb-xml/arm-m-profile-mve.xml
/*
*  NetBSD thread dependent code and definitions
*
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*/

#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"

#endif /* TARGET_OS_THREAD_H */
/*
*  i386 cpu init and loop
*
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*/

#ifndef TARGET_ARCH_CPU_H
#define TARGET_ARCH_CPU_H
```

```
#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu32"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
  uint64_t *gdt_table;

  env->cr[0] = CR0_PG_MASK | CR0_WP_MASK
| CR0_PE_MASK;
  env->hflags |= HF_PE_MASK | HF_CPL_MASK;
  if (env->features[FEAT_1_EDX] & CPUID_SSE) {
      env->cr[4] |= CR4_OSFXSR_MASK;
      env->hflags |= HF_OSFXSR_MASK;
  }

  /* flags setup : we activate the IRQs by default as in user mode */
  env->eflags |= IF_MASK;

  /* register setup */
  env->regs[R_EAX] = regs->eax;
  env->regs[R_EBX] = regs->ebx;
  env->regs[R_ECX] = regs->ecx;
  env->regs[R_EDX] = regs->edx;
  env->regs[R_ESI] = regs->esi;
  env->regs[R_EDI] = regs->edi;
  env->regs[R_EBP] = regs->ebp;
  env->regs[R_ESP] = regs->esp;
  env->eip = regs->eip;

  /* interrupt setup */
  env->idt.limit = 255;

  env->idt.base = target_mmap(0, sizeof(uint64_t) * (env->idt.limit + 1),
      PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  bsd_i386_set_idt_base(env->idt.base);
  bsd_i386_set_idt(0, 0);
  bsd_i386_set_idt(1, 0);
  bsd_i386_set_idt(2, 0);
  bsd_i386_set_idt(3, 3);
  bsd_i386_set_idt(4,
 3);
  bsd_i386_set_idt(5, 0);
  bsd_i386_set_idt(6, 0);
  bsd_i386_set_idt(7, 0);
```

```
  bsd_i386_set_idt(8, 0);
  bsd_i386_set_idt(9, 0);
  bsd_i386_set_idt(10, 0);
  bsd_i386_set_idt(11, 0);
  bsd_i386_set_idt(12, 0);
  bsd_i386_set_idt(13, 0);
  bsd_i386_set_idt(14, 0);
  bsd_i386_set_idt(15, 0);
  bsd_i386_set_idt(16, 0);
  bsd_i386_set_idt(17, 0);
  bsd_i386_set_idt(18, 0);
  bsd_i386_set_idt(19, 0);
  bsd_i386_set_idt(0x80, 3);

  /* segment setup */
  env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
        PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  env->gdt.limit = sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
  gdt_table = g2h_untagged(env->gdt.base);

  bsd_i386_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
        (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

  bsd_i386_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
         DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
        (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

  cpu_x86_load_seg(env, R_CS, __USER_CS);
  cpu_x86_load_seg(env, R_SS, __USER_DS);
  cpu_x86_load_seg(env, R_DS, __USER_DS);
  cpu_x86_load_seg(env, R_ES, __USER_DS);
  cpu_x86_load_seg(env, R_FS, __USER_DS);
  cpu_x86_load_seg(env, R_GS, __USER_DS);
  /* This hack makes Wine work... */
  env->segs[R_FS].selector = 0;
}

static inline void target_cpu_loop(CPUX86State *env)
{
  CPUState *cs = env_cpu(env);
  int trapnr;
  abi_ulong pc;
  /* target_siginfo_t info; */

  for (;;) {
     cpu_exec_start(cs);
     trapnr = cpu_exec(cs);
```

```
    cpu_exec_end(cs);
    process_queued_cpu_work(cs);

    switch (trapnr) {
    case 0x80: {
        /* syscall from int $0x80 */
        abi_ulong params = (abi_ulong) env->regs[R_ESP] +
            sizeof(int32_t);
        int32_t syscall_nr = env->regs[R_EAX];
         int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

        if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
            get_user_s32(syscall_nr, params);
            params += sizeof(int32_t);
        } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
            get_user_s32(syscall_nr, params);
            params += sizeof(int64_t);
        }
        get_user_s32(arg1, params);
        params += sizeof(int32_t);
        get_user_s32(arg2, params);
        params += sizeof(int32_t);
        get_user_s32(arg3, params);
        params += sizeof(int32_t);
        get_user_s32(arg4, params);
        params += sizeof(int32_t);
        get_user_s32(arg5, params);
        params += sizeof(int32_t);
        get_user_s32(arg6, params);
        params += sizeof(int32_t);
        get_user_s32(arg7, params);
        params += sizeof(int32_t);
        get_user_s32(arg8, params);

    env->regs[R_EAX] = do_freebsd_syscall(env,
                                          syscall_nr,
                                          arg1,
                                          arg2,
                                          arg3,
                                          arg4,
                                          arg5,
                                          arg6,
                                          arg7,
                                          arg8);
        }
        if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
            env->regs[R_EAX] = -env->regs[R_EAX];
            env->eflags |= CC_C;
```

```
        } else {
            env->eflags &= ~CC_C;
        }
        break;

    case EXCP_SYSCALL:
        /* doesn't do anything */
        break;

    case EXCP_INTERRUPT:
        /* just indicate that signals should be handled
 asap */
        break;

    case EXCP_ATOMIC:
        cpu_exec_step_atomic(cs);
        break;

    default:
        pc = env->segs[R_CS].base + env->eip;
        fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                "aborting\n", (long)pc, trapnr);
        abort();
    }
    process_pending_signals(env);
  }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
{
  if (newsp) {
    env->regs[R_ESP] = newsp;
  }
  env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *env)
{
  cpu_reset(env_cpu(env));
}

#endif /* TARGET_ARCH_CPU_H */
```

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```
/*
*  arm sysarch() system call emulation
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUARMState *env, int op,
      abi_ulong parms)
{
  int ret = 0;

  switch (op) {

 case TARGET_FREEBSD_ARM_SYNC_ICACHE:
  case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
      break;

  case TARGET_FREEBSD_ARM_SET_TP:
      target_cpu_set_tls(env, parms);
      break;

  case TARGET_FREEBSD_ARM_GET_TP:
      ret = target_cpu_get_tls(env);
      break;

  default:
      ret = -TARGET_EINVAL;
      break;
  }
```

```
  return ret;
}

static inline void do_freebsd_arch_print_sysarch(
      const struct syscallname *name, abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

  switch (arg1) {
  case TARGET_FREEBSD_ARM_SYNC_ICACHE:
      gemu_log("%s(ARM_SYNC_ICACHE, ...)", name->name);
      break;

  case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
      gemu_log("%s(ARM_DRAIN_WRITEBUF, ...)", name->name);
      break;

  case TARGET_FREEBSD_ARM_SET_TP:
      gemu_log("%s(ARM_SET_TP, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
      break;

  case TARGET_FREEBSD_ARM_GET_TP:
      gemu_log("%s(ARM_GET_TP,
 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
      break;

  default:
      gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
  }
}

#endif /* TARGET_ARCH_SYSARCH_H */
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
```

```
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_getpid      20
#define
 TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
#define TARGET_NETBSD_NR_compat_43_stat43    38
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe        42
#define TARGET_NETBSD_NR_getegid
    43
#define TARGET_NETBSD_NR_profil      44
#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13     48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct        51
```

```
#define TARGET_NETBSD_NR_compat_13_sigpending13      52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13     53
#define TARGET_NETBSD_NR_ioctl       54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke      56
#define TARGET_NETBSD_NR_symlink     57
#define TARGET_NETBSD_NR_readlink    58
#define TARGET_NETBSD_NR_execve      59
#define TARGET_NETBSD_NR_umask       60
#define TARGET_NETBSD_NR_chroot      61
#define TARGET_NETBSD_NR_compat_43_fstat43   62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo      63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize
  64
#define TARGET_NETBSD_NR_compat_12_msync     65
#define TARGET_NETBSD_NR_vfork       66
#define TARGET_NETBSD_NR_sbrk        69
#define TARGET_NETBSD_NR_sstk        70
#define TARGET_NETBSD_NR_compat_43_ommap     71
#define TARGET_NETBSD_NR_vadvise     72
#define TARGET_NETBSD_NR_munmap      73
#define TARGET_NETBSD_NR_mprotect    74
#define TARGET_NETBSD_NR_madvise     75
#define TARGET_NETBSD_NR_mincore     78
#define TARGET_NETBSD_NR_getgroups   79
#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp     81
#define TARGET_NETBSD_NR_setpgid     82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait     84
#define TARGET_NETBSD_NR_compat_12_oswapon   85
#define TARGET_NETBSD_NR_getitimer   86
#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize    89
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl
  92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_oaccept   99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
```

```
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec   108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage
  117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
#define TARGET_NETBSD_NR_setregid    127
#define TARGET_NETBSD_NR_rename      128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate        130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mkfifo      132
#define TARGET_NETBSD_NR_sendto      133
#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair  135
#define TARGET_NETBSD_NR_mkdir       136
#define TARGET_NETBSD_NR_rmdir       137
#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername      141
#define TARGET_NETBSD_NR_compat_43_ogethostid
      142
#define TARGET_NETBSD_NR_compat_43_osethostid        143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit        144
#define TARGET_NETBSD_NR_compat_43_osetrlimit        145
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References

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TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
/*
* i386 thread support
*

```
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*/

#ifndef TARGET_ARCH_THREAD_H
#define TARGET_ARCH_THREAD_H

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
   abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
   /* XXX */
}

static
 inline void target_thread_init(struct target_pt_regs *regs,
       struct image_info *infop)
{
   regs->esp = infop->start_stack;
   regs->eip = infop->entry;

   /*
    * SVR4/i386 ABI (pages 3-31, 3-32) says that when the program starts %edx
    * contains a pointer to a function which might be registered using
    * `atexit'.  This provides a mean for the dynamic linker to call DT_FINI
    * functions for shared libraries that have been loaded before the code
    * runs.
    *
    * A value of 0 tells we have no such handler.
    */
   regs->edx = 0;
}

#endif /* TARGET_ARCH_THREAD_H */
/*
*  process related system call shims and definitions
```

```
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*/

#ifndef BSD_USER_FREEBSD_OS_PROC_H
#define BSD_USER_FREEBSD_OS_PROC_H

#include <sys/param.h>
#include <sys/procctl.h>
#include <sys/signal.h>
#include <sys/types.h>
#include <sys/procdesc.h>
#include <sys/wait.h>
#include <unistd.h>

#include
 "target_arch_cpu.h"

pid_t safe_wait4(pid_t wpid, int *status, int options, struct rusage *rusage);
pid_t safe_wait6(idtype_t idtype, id_t id, int *status, int options,
   struct __wrusage *wrusage, siginfo_t *infop);

extern int __setugid(int flag);

/* execve(2) */
static inline abi_long do_freebsd_execve(abi_ulong path_or_fd, abi_ulong argp,
       abi_ulong envp)
{

   return freebsd_exec_common(path_or_fd, argp, envp, 0);
}

/* fexecve(2) */
static inline abi_long do_freebsd_fexecve(abi_ulong path_or_fd, abi_ulong argp,
       abi_ulong envp)
```

```
{

  return freebsd_exec_common(path_or_fd, argp, envp, 1);
}

/* wait4(2) */
static inline abi_long do_freebsd_wait4(abi_long arg1, abi_ulong target_status,
      abi_long arg3, abi_ulong target_rusage)
{
  abi_long ret;
  int status;
  struct rusage rusage, *rusage_ptr = NULL;

  if (target_rusage) {
      rusage_ptr = &rusage;
  }
  ret = get_errno(safe_wait4(arg1, &status, arg3, rusage_ptr));

  if (ret < 0)
 {
      return ret;
  }
  if (target_status != 0) {
      status = host_to_target_waitstatus(status);
      if (put_user_s32(status, target_status) != 0) {
          return -TARGET_EFAULT;
      }
  }
  if (target_rusage != 0) {
      host_to_target_rusage(target_rusage, &rusage);
  }
  return ret;
}

/* wait6(2) */
static inline abi_long do_freebsd_wait6(void *cpu_env, abi_long idtype,
  abi_long id1, abi_long id2,
  abi_ulong target_status, abi_long options, abi_ulong target_wrusage,
  abi_ulong target_infop, abi_ulong pad1)
{
  abi_long ret;
  int status;
  struct __wrusage wrusage, *wrusage_ptr = NULL;
  siginfo_t info;
  void *p;

  if (regpairs_aligned(cpu_env) != 0) {
      /* printf("shifting args\n"); */
```

```
        /* 64-bit id is aligned, so shift all the arguments over by one */
        id1 = id2;
        id2 = target_status;
        target_status = options;
        options = target_wrusage;
        target_wrusage = target_infop;

      target_infop = pad1;
    }

    if (target_wrusage) {
        wrusage_ptr = &wrusage;
    }
    ret = get_errno(safe_wait6(idtype, target_arg64(id1, id2),
                               &status, options, wrusage_ptr, &info));

    if (ret < 0) {
        return ret;
    }
    if (target_status != 0) {
        status = host_to_target_waitstatus(status);
        if (put_user_s32(status, target_status) != 0) {
            return -TARGET_EFAULT;
        }
    }
    if (target_wrusage != 0) {
        host_to_target_wrusage(target_wrusage, &wrusage);
    }
    if (target_infop != 0) {
        p = lock_user(VERIFY_WRITE, target_infop, sizeof(target_siginfo_t), 0);
        if (p == NULL) {
            return -TARGET_EFAULT;
        }
        host_to_target_siginfo(p, &info);
        unlock_user(p, target_infop, sizeof(target_siginfo_t));
    }
    return ret;
}

/* setloginclass(2) */
static inline abi_long do_freebsd_setloginclass(abi_ulong arg1)
{
    abi_long ret;
    void *p;

    p = lock_user_string(arg1);
     if (p == NULL) {
        return -TARGET_EFAULT;
```

```
    }
    ret = get_errno(setloginclass(p));
    unlock_user(p, arg1, 0);

    return ret;
}

/* getloginclass(2) */
static inline abi_long do_freebsd_getloginclass(abi_ulong arg1, abi_ulong arg2)
{
    abi_long ret;
    void *p;

    p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(getloginclass(p, arg2));
    unlock_user(p, arg1, arg2);

    return ret;
}

/* pdgetpid(2) */
static inline abi_long do_freebsd_pdgetpid(abi_long fd, abi_ulong target_pidp)
{
    abi_long ret;
    pid_t pid;

    ret = get_errno(pdgetpid(fd, &pid));
    if (!is_error(ret)) {
        if (put_user_u32(pid, target_pidp)) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* undocumented __setugid */
static inline abi_long do_freebsd___setugid(abi_long arg1)
{
    return -TARGET_ENOSYS;
}

/* fork(2) */
static inline abi_long do_freebsd_fork(void
 *cpu_env)
{
```

```
    abi_long ret;
    abi_ulong child_flag;

    fork_start();
    ret = fork();
    if (ret == 0) {
        /* child */
        child_flag = 1;
        target_cpu_clone_regs(cpu_env, 0);
    } else {
        /* parent */
        child_flag = 0;
    }

    /*
     * The fork system call sets a child flag in the second return
     * value: 0 for parent process, 1 for child process.
     */
    set_second_rval(cpu_env, child_flag);

    fork_end(child_flag);

    return ret;
}

/* vfork(2) */
static inline abi_long do_freebsd_vfork(void *cpu_env)
{
    return do_freebsd_fork(cpu_env);
}

/* rfork(2) */
static inline abi_long do_freebsd_rfork(void *cpu_env, abi_long flags)
{
    abi_long ret;
    abi_ulong child_flag;

    /*
     * XXX We need to handle RFMEM here, as well.  Neither are safe to execute
     * as-is on x86 hosts because they'll split memory but not the stack,
     * wreaking havoc on host architectures that use the stack to store the
     * return address as
  both threads try to pop it off.  Rejecting RFSPAWN
     * entirely for now is ok, the only consumer at the moment is posix_spawn
     * and it will fall back to classic vfork(2) if we return EINVAL.
     */
    if ((flags & TARGET_RFSPAWN) != 0) {
        return -TARGET_EINVAL;
```

```
    }
    fork_start();
    ret = rfork(flags);
    if (ret == 0) {
        /* child */
        child_flag = 1;
        target_cpu_clone_regs(cpu_env, 0);
    } else {
        /* parent */
        child_flag = 0;
    }

    /*
     * The fork system call sets a child flag in the second return
     * value: 0 for parent process, 1 for child process.
     */
    set_second_rval(cpu_env, child_flag);
    fork_end(child_flag);

    return ret;

}

/* pdfork(2) */
static inline abi_long do_freebsd_pdfork(void *cpu_env, abi_ulong target_fdp,
        abi_long flags)
{
    abi_long ret;
    abi_ulong child_flag;
    int fd;

    fork_start();
    ret = pdfork(&fd, flags);
    if (ret == 0) {
        /* child */

    child_flag = 1;
        target_cpu_clone_regs(cpu_env, 0);
    } else {
        /* parent */
        child_flag = 0;
        if (put_user_s32(fd, target_fdp)) {
            return -TARGET_EFAULT;
        }
    }

    /*
     * The fork system call sets a child flag in the second return
```

```
    * value: 0 for parent process, 1 for child process.
    */
   set_second_rval(cpu_env, child_flag);
   fork_end(child_flag);

   return ret;
}

#endif /* BSD_USER_FREEBSD_OS_PROC_H */
/*
*  i386 system call definitions
*
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

/* default linux values for the selectors */
#define __USER_CS (0x23)
#define __USER_DS (0x2B)

struct target_pt_regs {
 long ebx;
 long ecx;
 long edx;
 long esi;
 long edi;
 long ebp;
 long eax;
 int  xds;
 int  xes;
 long orig_eax;
 long eip;
 int
  xcs;
 long eflags;
```

```
 long esp;
 int  xss;
};

/* ioctls */

#define TARGET_LDT_ENTRIES      8192
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES            9
#define TARGET_GDT_ENTRY_TLS_ENTRIES   3
#define TARGET_GDT_ENTRY_TLS_MIN       6
#define TARGET_GDT_ENTRY_TLS_MAX       (TARGET_GDT_ENTRY_TLS_MIN +
TARGET_GDT_ENTRY_TLS_ENTRIES - 1)

struct target_modify_ldt_ldt_s {
   unsigned int  entry_number;
   abi_ulong base_addr;
   unsigned int limit;
   unsigned int flags;
};

/* vm86 defines */

#define TARGET_BIOSSEG  0x0f000

#define TARGET_CPU_086  0
#define TARGET_CPU_186  1
#define TARGET_CPU_286  2
#define TARGET_CPU_386  3
#define TARGET_CPU_486  4
#define TARGET_CPU_586  5

#define TARGET_VM86_SIGNAL 0 /* return due to signal */
#define TARGET_VM86_UNKNOWN 1 /* unhandled GP fault - IO-instruction or similar */
#define TARGET_VM86_INTx 2 /* int3/int x instruction (ARG = x) */
#define TARGET_VM86_STI 3 /* sti/popf/iret instruction enabled virtual interrupts */

/*
 * Additional return values when invoking new vm86()
*/
#define TARGET_VM86_PICRETURN 4 /* return due to pending PIC request */
#define TARGET_VM86_TRAP 6 /* return due to DOS-debugger request */

/*
* function codes when invoking new vm86()
*/
#define TARGET_VM86_PLUS_INSTALL_CHECK 0
```

```
#define TARGET_VM86_ENTER  1
#define TARGET_VM86_ENTER_NO_BYPASS 2
#define TARGET_VM86_REQUEST_IRQ 3
#define TARGET_VM86_FREE_IRQ  4
#define TARGET_VM86_GET_IRQ_BITS 5
#define TARGET_VM86_GET_AND_RESET_IRQ 6

/*
* This is the stack-layout seen by the user space program when we have
* done a translation of "SAVE_ALL" from vm86 mode. The real kernel layout
* is 'kernel_vm86_regs' (see below).
*/

struct target_vm86_regs {
/*
* normal regs, with special meaning for the segment descriptors..
*/
 abi_long ebx;
 abi_long ecx;
 abi_long edx;
 abi_long esi;
 abi_long edi;
 abi_long ebp;
 abi_long eax;
 abi_long __null_ds;
 abi_long __null_es;
 abi_long __null_fs;
 abi_long __null_gs;
 abi_long orig_eax;
 abi_long
 eip;
 unsigned short cs, __csh;
 abi_long eflags;
 abi_long esp;
 unsigned short ss, __ssh;
/*
* these are specific to v86 mode:
*/
 unsigned short es, __esh;
 unsigned short ds, __dsh;
 unsigned short fs, __fsh;
 unsigned short gs, __gsh;
};

struct target_revectored_struct {
 abi_ulong __map[8];   /* 256 bits */
};
```

```
struct target_vm86_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
};

/*
* flags masks
*/
#define TARGET_VM86_SCREEN_BITMAP 0x0001

struct target_vm86plus_info_struct {
       abi_ulong flags;
#define TARGET_force_return_for_pic (1 << 0)
#define TARGET_vm86dbg_active       (1 << 1)  /* for debugger */
#define TARGET_vm86dbg_TFpendig     (1 << 2)  /* for debugger */
#define TARGET_is_vm86pus           (1 << 31) /* for vm86 internal use */
 unsigned char vm86dbg_intxxtab[32];   /* for debugger */
};

struct
 target_vm86plus_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
 struct target_vm86plus_info_struct vm86plus;
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
    /* I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
    /* xxxxx */
#define TARGET_FREEBSD_I386_VM86 6
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10
```

```
#define UNAME_MACHINE "i386"
#define TARGET_HW_MACHINE UNAME_MACHINE
#define TARGET_HW_MACHINE_ARCH UNAME_MACHINE

#endif /* TARGET_SYSCALL_H */
/*
*  OpenBSD host dependent code and definitions
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*/

#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_openbsd

#endif /* HOST_OS_H */
```

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#ifndef BSD_USER_FREEBSD_OS_STAT_H
#define BSD_USER_FREEBSD_OS_STAT_H

int freebsd11_stat(const char *path, struct freebsd11_stat *stat);
__sym_compat(stat, freebsd11_stat, FBSD_1.0);
int freebsd11_lstat(const char *path, struct freebsd11_stat
 *stat);
__sym_compat(lstat, freebsd11_lstat, FBSD_1.0);
int freebsd11_fstat(int fd, struct freebsd11_stat *stat);
__sym_compat(fstat, freebsd11_fstat, FBSD_1.0);
int freebsd11_fstatat(int fd, const char *path, struct freebsd11_stat *stat,
       int flag);
__sym_compat(fstatat, freebsd11_fstatat, FBSD_1.1);

int freebsd11_fhstat(const fhandle_t *fhandle, struct freebsd11_stat *stat);
__sym_compat(fhstat, freebsd11_fhstat, FBSD_1.0);
int freebsd11_getfsstat(struct freebsd11_statfs *buf, long bufsize, int mode);
__sym_compat(getfsstat, freebsd11_getfsstat, FBSD_1.0);
int freebsd11_fhstatfs(const fhandle_t *fhandle, struct freebsd11_statfs * buf);
__sym_compat(fhstatfs, freebsd11_fhstatfs, FBSD_1.0);
int freebsd11_statfs(const char *path, struct freebsd11_statfs *buf);
__sym_compat(statfs, freebsd11_statfs, FBSD_1.0);
int freebsd11_fstatfs(int fd, struct freebsd11_statfs *buf);
__sym_compat(fstatfs, freebsd11_fstatfs, FBSD_1.0);

ssize_t freebsd11_getdirentries(int fd, char *buf, size_t
```

```
 nbytes, off_t *basep);
__sym_compat(getdirentries, freebsd11_getdirentries, FBSD_1.0);
ssize_t freebsd11_getdents(int fd, char *buf, size_t nbytes);
__sym_compat(getdents, freebsd11_getdents, FBSD_1.0);

/* undocumented nstat system calls */
int freebsd11_nstat(const char *path, struct freebsd11_stat *sb);
__sym_compat(nstat, freebsd11_nstat, FBSD_1.0);
int freebsd11_nlstat(const char *path, struct freebsd11_stat *sb);
__sym_compat(nlstat, freebsd11_nlstat, FBSD_1.0);
int freebsd11_nfstat(int fd, struct freebsd11_stat *sb);
__sym_compat(nfstat, freebsd11_nfstat, FBSD_1.0);

/* stat(2) */
static inline abi_long do_freebsd11_stat(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;
   struct freebsd11_stat st;

   LOCK_PATH(p, arg1);
   ret = get_errno(freebsd11_stat(path(p), &st));
   UNLOCK_PATH(p, arg1);
   if (!is_error(ret)) {
       ret = h2t_freebsd11_stat(arg2, &st);
   }
   return ret;
}

/* lstat(2) */
static inline abi_long do_freebsd11_lstat(abi_long arg1, abi_long
 arg2)
{
   abi_long ret;
   void *p;
   struct freebsd11_stat st;

   LOCK_PATH(p, arg1);
   ret = get_errno(freebsd11_lstat(path(p), &st));
   UNLOCK_PATH(p, arg1);
   if (!is_error(ret)) {
       ret = h2t_freebsd11_stat(arg2, &st);
   }
   return ret;
}

/* fstat(2) */
static inline abi_long do_freebsd11_fstat(abi_long arg1, abi_long arg2)
```

```
{
   abi_long ret;
   struct freebsd11_stat st;

   ret = get_errno(freebsd11_fstat(arg1, &st));
   if (!is_error(ret))  {
       ret = h2t_freebsd11_stat(arg2, &st);
   }
   return ret;
}

/* fstat(2) */
static inline abi_long do_freebsd_fstat(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   struct stat st;

   ret = get_errno(fstat(arg1, &st));
   if (!is_error(ret))  {
       ret = h2t_freebsd_stat(arg2, &st);
   }
   return ret;
}

/* fstatat(2) */
static inline abi_long do_freebsd11_fstatat(abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;
   struct freebsd11_stat
 st;

   LOCK_PATH(p, arg2);
   ret = get_errno(freebsd11_fstatat(arg1, p, &st, arg4));
   UNLOCK_PATH(p, arg2);
   if (!is_error(ret) && arg3) {
       ret = h2t_freebsd11_stat(arg3, &st);
   }
   return ret;
}

/* fstatat(2) */
static inline abi_long do_freebsd_fstatat(abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;
```

```
  struct stat st;

  LOCK_PATH(p, arg2);
  ret = get_errno(fstatat(arg1, p, &st, arg4));
  UNLOCK_PATH(p, arg2);
  if (!is_error(ret) && arg3) {
      ret = h2t_freebsd_stat(arg3, &st);
  }
  return ret;
}

/* undocumented nstat(char *path, struct nstat *ub) syscall */
static abi_long do_freebsd11_nstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_nstat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
      ret = h2t_freebsd11_nstat(arg2, &st);
  }
  return ret;
}

/*
 undocumented nfstat(int fd, struct nstat *sb) syscall */
static abi_long do_freebsd11_nfstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  struct freebsd11_stat st;

  ret = get_errno(freebsd11_nfstat(arg1, &st));
  if (!is_error(ret))  {
      ret = h2t_freebsd11_nstat(arg2, &st);
  }
  return ret;
}

/* undocumented nlstat(char *path, struct nstat *ub) syscall */
static abi_long do_freebsd11_nlstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat st;
```

```
   LOCK_PATH(p, arg1);
   ret = get_errno(freebsd11_nlstat(path(p), &st));
   UNLOCK_PATH(p, arg1);
   if (!is_error(ret)) {
       ret = h2t_freebsd11_nstat(arg2, &st);
   }
   return ret;
}

/* getfh(2) */
static abi_long do_freebsd_getfh(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;
   fhandle_t host_fh;

   LOCK_PATH(p, arg1);
   ret = get_errno(getfh(path(p), &host_fh));
   UNLOCK_PATH(p, arg1);
   if (is_error(ret)) {
       return ret;

  }
   return h2t_freebsd_fhandle(arg2, &host_fh);
}

/* lgetfh(2) */
static inline abi_long do_freebsd_lgetfh(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;
   fhandle_t host_fh;

   LOCK_PATH(p, arg1);
   ret = get_errno(lgetfh(path(p), &host_fh));
   UNLOCK_PATH(p, arg1);
   if (is_error(ret)) {
       return ret;
   }
   return h2t_freebsd_fhandle(arg2, &host_fh);
}

/* fhopen(2) */
static inline abi_long do_freebsd_fhopen(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   fhandle_t host_fh;
```

```
    ret = t2h_freebsd_fhandle(&host_fh, arg1);
    if (is_error(ret)) {
        return ret;
    }

    return get_errno(fhopen(&host_fh, arg2));
}

/* fhstat(2) */
static inline abi_long do_freebsd11_fhstat(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    fhandle_t host_fh;
    struct freebsd11_stat host_sb;

    ret = t2h_freebsd_fhandle(&host_fh, arg1);
    if (is_error(ret)) {
        return ret;
    }
    ret = get_errno(freebsd11_fhstat(&host_fh, &host_sb));
     if (is_error(ret)) {
        return ret;
    }
    return h2t_freebsd11_stat(arg2, &host_sb);
}

/* fhstat(2) */
static inline abi_long do_freebsd_fhstat(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    fhandle_t host_fh;
    struct stat host_sb;

    ret = t2h_freebsd_fhandle(&host_fh, arg1);
    if (is_error(ret)) {
        return ret;
    }
    ret = get_errno(fhstat(&host_fh, &host_sb));
    if (is_error(ret)) {
        return ret;
    }
    return h2t_freebsd_stat(arg2, &host_sb);
}

/* fhstatfs(2) */
static inline abi_long do_freebsd11_fhstatfs(abi_ulong target_fhp_addr,
        abi_ulong target_stfs_addr)
{
```

```
  abi_long ret;
  fhandle_t host_fh;
  struct freebsd11_statfs host_stfs;

  ret = t2h_freebsd_fhandle(&host_fh, target_fhp_addr);
  if (is_error(ret)) {
      return ret;
  }
  ret = get_errno(freebsd11_fhstatfs(&host_fh, &host_stfs));
  if (is_error(ret)) {
      return ret;
  }
  return h2t_freebsd11_statfs(target_stfs_addr, &host_stfs);
}

/*
 fhstatfs(2) */
static inline abi_long do_freebsd_fhstatfs(abi_ulong target_fhp_addr,
      abi_ulong target_stfs_addr)
{
  abi_long ret;
  fhandle_t host_fh;
  struct statfs host_stfs;

  ret = t2h_freebsd_fhandle(&host_fh, target_fhp_addr);
  if (is_error(ret)) {
      return ret;
  }
  ret = get_errno(fhstatfs(&host_fh, &host_stfs));
  if (is_error(ret)) {
      return ret;
  }
  return h2t_freebsd_statfs(target_stfs_addr, &host_stfs);
}

/* statfs(2) */
static inline abi_long do_freebsd11_statfs(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_statfs host_stfs;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_statfs(path(p), &host_stfs));
  UNLOCK_PATH(p, arg1);
  if (is_error(ret)) {
      return ret;
  }
```

```
   return h2t_freebsd11_statfs(arg2, &host_stfs);
}

/* statfs(2) */
static inline abi_long do_freebsd_statfs(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;
   struct statfs host_stfs;

    LOCK_PATH(p, arg1);
   ret = get_errno(statfs(path(p), &host_stfs));
   UNLOCK_PATH(p, arg1);
   if (is_error(ret)) {
       return ret;
   }

   return h2t_freebsd_statfs(arg2, &host_stfs);
}

/* fstatfs(2) */
static inline abi_long do_freebsd11_fstatfs(abi_long fd, abi_ulong target_addr)
{
   abi_long ret;
   struct freebsd11_statfs host_stfs;

   ret = get_errno(freebsd11_fstatfs(fd, &host_stfs));
   if (is_error(ret)) {
       return ret;
   }

   return h2t_freebsd11_statfs(target_addr, &host_stfs);
}

/* fstatfs(2) */
static inline abi_long do_freebsd_fstatfs(abi_long fd, abi_ulong target_addr)
{
   abi_long ret;
   struct statfs host_stfs;

   ret = get_errno(fstatfs(fd, &host_stfs));
   if (is_error(ret)) {
       return ret;
   }

   return h2t_freebsd_statfs(target_addr, &host_stfs);
}
```

```
/* getfsstat(2) */
static inline abi_long do_freebsd11_getfsstat(abi_ulong target_addr,
      abi_long bufsize, abi_long flags)
{
   abi_long ret;
   struct freebsd11_statfs
 *host_stfs;
   int count;
   long host_bufsize;

   count = bufsize / sizeof(struct target_freebsd11_statfs);

   /* if user buffer is NULL then return number of mounted FS's */
   if (target_addr == 0 || count == 0) {
      return get_errno(freebsd11_getfsstat(NULL, 0, flags));
   }

   /* XXX check count to be reasonable */
   host_bufsize = sizeof(struct freebsd11_statfs) * count;
   host_stfs = alloca(host_bufsize);
   if (!host_stfs) {
      return -TARGET_EINVAL;
   }

   ret = count = get_errno(freebsd11_getfsstat(host_stfs, host_bufsize, flags));
   if (is_error(ret)) {
      return ret;
   }

   while (count--) {
      if (h2t_freebsd11_statfs((target_addr +
                     (count * sizeof(struct target_freebsd11_statfs))),
                  &host_stfs[count])) {
         return -TARGET_EFAULT;
      }
   }
   return ret;
}

/* getfsstat(2) */
static inline abi_long do_freebsd_getfsstat(abi_ulong target_addr,
      abi_long
 bufsize, abi_long flags)
{
   abi_long ret;
   struct statfs *host_stfs;
   int count;
```

```
    long host_bufsize;

    count = bufsize / sizeof(struct target_statfs);

    /* if user buffer is NULL then return number of mounted FS's */
    if (target_addr == 0 || count == 0) {
        return get_errno(freebsd11_getfsstat(NULL, 0, flags));
    }

    /* XXX check count to be reasonable */
    host_bufsize = sizeof(struct statfs) * count;
    host_stfs = alloca(host_bufsize);
    if (!host_stfs) {
        return -TARGET_EINVAL;
    }

    ret = count = get_errno(getfsstat(host_stfs, host_bufsize, flags));
    if (is_error(ret)) {
        return ret;
    }

    while (count--) {
        if (h2t_freebsd_statfs((target_addr +
                        (count * sizeof(struct target_statfs))),
                    &host_stfs[count])) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* getdents(2) */
static inline abi_long do_freebsd11_getdents(abi_long arg1,
        abi_ulong
 arg2, abi_long nbytes)
{
    abi_long ret;
    struct freebsd11_dirent *dirp;

    dirp = lock_user(VERIFY_WRITE, arg2, nbytes, 0);
    if (dirp == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(freebsd11_getdents(arg1, (char *)dirp, nbytes));
    if (!is_error(ret)) {
        struct freebsd11_dirent *de;
        int len = ret;
        int reclen;
```

```
        de = dirp;
        while (len > 0) {
            reclen = de->d_reclen;
            if (reclen > len) {
                return -TARGET_EFAULT;
            }
            de->d_reclen = tswap16(reclen);
            de->d_fileno = tswap32(de->d_fileno);
            len -= reclen;
        }
    }
    return ret;
}

/* getdirecentries(2) */
static inline abi_long do_freebsd11_getdirentries(abi_long arg1,
        abi_ulong arg2, abi_long nbytes, abi_ulong arg4)
{
    abi_long ret;
    struct freebsd11_dirent *dirp;
    long basep;

    dirp = lock_user(VERIFY_WRITE, arg2, nbytes, 0);
    if (dirp == NULL) {

   return -TARGET_EFAULT;
    }
    ret = get_errno(freebsd11_getdirentries(arg1, (char *)dirp, nbytes, &basep));
    if (!is_error(ret)) {
        struct freebsd11_dirent *de;
        int len = ret;
        int reclen;

        de = dirp;
        while (len > 0) {
            reclen = de->d_reclen;
            if (reclen > len) {
                return -TARGET_EFAULT;
            }
            de->d_reclen = tswap16(reclen);
            de->d_fileno = tswap32(de->d_fileno);
            len -= reclen;
            de = (struct freebsd11_dirent *)((void *)de + reclen);
        }
    }
    unlock_user(dirp, arg2, ret);
    if (arg4) {
```

```
        if (put_user(basep, arg4, abi_ulong)) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* getdirecentries(2) */
static inline abi_long do_freebsd_getdirentries(abi_long arg1,
        abi_ulong arg2, abi_long nbytes, abi_ulong arg4)
{
    abi_long ret;
    struct dirent *dirp;
    long basep;

    dirp = lock_user(VERIFY_WRITE, arg2,
 nbytes, 0);
    if (dirp == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(getdirentries(arg1, (char *)dirp, nbytes, &basep));
    if (!is_error(ret)) {
        struct dirent *de;
        int len = ret;
        int reclen;

        de = dirp;
        while (len > 0) {
            reclen = de->d_reclen;
            if (reclen > len) {
                return -TARGET_EFAULT;
            }
            de->d_fileno = tswap64(de->d_fileno);
            de->d_off = tswap64(de->d_off);
            de->d_reclen = tswap16(de->d_reclen);
            de->d_namlen = tswap16(de->d_namlen);
            len -= reclen;
            de = (struct dirent *)((void *)de + reclen);
        }
    }
    unlock_user(dirp, arg2, ret);
    if (arg4) {
        if (put_user(basep, arg4, abi_ulong)) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}
```

```
/* fcntl(2) */
static inline abi_long do_freebsd_fcntl(abi_long arg1, abi_long arg2,
      abi_ulong arg3)
{
   abi_long ret;
    int host_cmd;
   struct flock fl;
   struct target_freebsd_flock *target_fl;

   host_cmd = target_to_host_fcntl_cmd(arg2);
   if (host_cmd < 0) {
      return host_cmd;
   }
   switch (arg2) {
   case TARGET_F_GETLK:
      if (!lock_user_struct(VERIFY_READ, target_fl, arg3, 1)) {
         return -TARGET_EFAULT;
      }
      __get_user(fl.l_type, &target_fl->l_type);
      __get_user(fl.l_whence, &target_fl->l_whence);
      __get_user(fl.l_start, &target_fl->l_start);
      __get_user(fl.l_len, &target_fl->l_len);
      __get_user(fl.l_pid, &target_fl->l_pid);
      __get_user(fl.l_sysid, &target_fl->l_sysid);
      unlock_user_struct(target_fl, arg3, 0);
      ret = get_errno(safe_fcntl(arg1, host_cmd, &fl));
      if (!is_error(ret)) {
         if (!lock_user_struct(VERIFY_WRITE, target_fl, arg3, 0)) {
            return -TARGET_EFAULT;
         }
         __put_user(fl.l_type, &target_fl->l_type);
         __put_user(fl.l_whence,
 &target_fl->l_whence);
         __put_user(fl.l_start, &target_fl->l_start);
         __put_user(fl.l_len, &target_fl->l_len);
         __put_user(fl.l_pid, &target_fl->l_pid);
         __put_user(fl.l_sysid, &target_fl->l_sysid);
         unlock_user_struct(target_fl, arg3, 1);
      }
      break;

   case TARGET_F_SETLK:
   case TARGET_F_SETLKW:
      if (!lock_user_struct(VERIFY_READ, target_fl, arg3, 1)) {
         return -TARGET_EFAULT;
      }
      __get_user(fl.l_type, &target_fl->l_type);
```

```
        __get_user(fl.l_whence, &target_fl->l_whence);
        __get_user(fl.l_start, &target_fl->l_start);
        __get_user(fl.l_len, &target_fl->l_len);
        __get_user(fl.l_pid, &target_fl->l_pid);
        __get_user(fl.l_sysid, &target_fl->l_sysid);
        unlock_user_struct(target_fl, arg3, 0);
        ret = get_errno(safe_fcntl(arg1, host_cmd, &fl));
        break;

    case TARGET_F_DUPFD:
    case TARGET_F_DUP2FD:
    case TARGET_F_GETOWN:

   case TARGET_F_SETOWN:
    case TARGET_F_GETFD:
    case TARGET_F_SETFD:
    case TARGET_F_GETFL:
    case TARGET_F_SETFL:
    case TARGET_F_READAHEAD:
    case TARGET_F_RDAHEAD:
    case TARGET_F_ADD_SEALS:
    case TARGET_F_GET_SEALS:
    default:
        ret = get_errno(safe_fcntl(arg1, host_cmd, arg3));
        break;
    }
    return ret;
}

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300080
extern int __realpathat(int fd, const char *path, char *buf, size_t size,
        int flags);
/* https://svnweb.freebsd.org/base?view=revision&revision=358172 */
/* no man page */
static inline abi_long do_freebsd_realpathat(abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4, abi_long arg5)
{
    abi_long ret;
    void *p, *b;

    LOCK_PATH(p, arg2);
    b = lock_user(VERIFY_WRITE, arg3, arg4, 0);
    if (b == NULL) {
        UNLOCK_PATH(p, arg2);
        return -TARGET_EFAULT;
    }

    ret = get_errno(__realpathat(arg1, p, b, arg4, arg5));
```

```
   UNLOCK_PATH(p, arg2);
    unlock_user(b, arg3, ret);

   return ret;
}
#endif

#endif /* BSD_USER_FREEBSD_OS_STAT_H */
```

GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+,
this does *not* cover the so-called "standalone" applications that
use U-Boot services by means of the jump table provided by U-Boot
exactly for this purpose - this is merely considered normal use of
U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
not fall under the heading of "derived work".
-- Wolfgang Denk

```
/* XXX NetBSD dependent strace print functions */
/*
* Intel general target stuff that's common to all i386 details
*
* Copyright (c) 2022 M. Warner Losh <imp@bsdimp.com>
*
* SPDX-License-Identifier: GPL-2.0-or-later
*/

#ifndef TARGET_H
#define TARGET_H

/*
* arm EABI 'lumps' the registers for 64-bit args.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
   return true;
}

#endif /* TARGET_H */
```

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various firmware files. These are separate programs that are
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```
/*
*  FreeBSD siginfo related definitions
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/

#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H

#define TARGET_NSIG         128
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling
 */
typedef struct target_sigaltstack {
  abi_long    ss_sp;
  abi_ulong   ss_size;
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t;

struct target_sigaction {
```

```
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

typedef union target_sigval {
  int32_t sival_int;
  abi_ulong sival_ptr;
  int32_t sigval_int;
  abi_ulong sigval_ptr;
} target_sigval_t;

typedef struct target_siginfo {
  int32_t si_signo;   /* signal number */
  int32_t si_errno;   /* errno association */
  int32_t si_code;    /* signal code */
  int32_t si_pid;     /* sending process */
  int32_t si_uid;     /* sender's ruid */
  int32_t si_status;  /* exit value */
  abi_ulong si_addr;  /* faulting instruction */
  union target_sigval si_value;   /* signal value */
  union {
     struct {
        int32_t _trapno;    /* machine specific trap code */
     } _fault;


 /* POSIX.1b timers */
     struct {
        int32_t _timerid;
        int32_t _overrun;
     } _timer;

     struct {
        int32_t _mqd;
     } _mesgp;

     /* SIGPOLL -- Not really generated in FreeBSD ??? */
     struct {
        int _band;  /* POLL_IN, POLL_OUT, POLL_MSG */
     } _poll;

     struct {
        int _mqd;
     } _mesgq;

     struct {
        /*
```

```
            * Syscall number for signals delivered as a result of system calls
            * denied by Capsicum.
            */
           int _syscall;
        } _capsicum;

        /* Spare for future growth */
        struct {
            abi_long __spare1__;
            int32_t  __spare2_[7];
        } __spare__;
    } _reason;
} target_siginfo_t;

struct target_sigevent {
    abi_int sigev_notify;
    abi_int sigev_signo;
    target_sigval_t sigev_value;
    union {
        abi_int _threadid;

        /*
         * The kernel (and thus QEMU) never looks at these;
          * they're only used as part of the ABI between a
         * userspace program and libc.
         */
        struct {
            abi_ulong _function;
            abi_ulong _attribute;
        } _sigev_thread;
        abi_ushort _kevent_flags;
        abi_long _pad[8];
    } _sigev_un;
};

#define target_si_signo     si_signo
#define target_si_code      si_code
#define target_si_errno     si_errno
#define target_si_addr      si_addr

/* SIGILL si_codes */
#define TARGET_ILL_ILLOPC   (1) /* Illegal opcode. */
#define TARGET_ILL_ILLOPN   (2) /* Illegal operand. */
#define TARGET_ILL_ILLADR   (3) /* Illegal addressing mode. */
#define TARGET_ILL_ILLTRP   (4) /* Illegal trap. */
#define TARGET_ILL_PRVOPC   (5) /* Privileged opcode. */
#define TARGET_ILL_PRVREG   (6) /* Privileged register. */
#define TARGET_ILL_COPROC   (7) /* Coprocessor error. */
```

```
#define TARGET_ILL_BADSTK   (8) /* Internal stack error. */

/* SIGSEGV si_codes */
#define TARGET_SEGV_MAPERR  (1) /* address not
 mapped to object */
#define TARGET_SEGV_ACCERR  (2) /* invalid permissions for mapped object */

/* SIGTRAP si_codes */
#define TARGET_TRAP_BRKPT   (1) /* process beakpoint */
#define TARGET_TRAP_TRACE   (2) /* process trace trap */

/* SIGBUS si_codes */
#define TARGET_BUS_ADRALN   (1)
#define TARGET_BUS_ADRERR   (2)
#define TARGET_BUS_OBJERR   (3)

/* SIGFPE codes */
#define TARGET_FPE_INTOVF   (1) /* Integer overflow. */
#define TARGET_FPE_INTDIV   (2) /* Integer divide by zero. */
#define TARGET_FPE_FLTDIV   (3) /* Floating point divide by zero. */
#define TARGET_FPE_FLTOVF   (4) /* Floating point overflow. */
#define TARGET_FPE_FLTUND   (5) /* Floating point underflow. */
#define TARGET_FPE_FLTRES   (6) /* Floating point inexact result. */
#define TARGET_FPE_FLTINV   (7) /* Invalid floating point operation. */
#define TARGET_FPE_FLTSUB   (8) /* Subscript out of range. */

#endif /* TARGET_OS_SIGINFO_H */
# See docs/devel/tracing.rst for syntax documentation.

# bsd-user/signal.c
user_setup_frame(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_setup_rt_frame(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_do_rt_sigreturn(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_do_sigreturn(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_dump_core_and_abort(void *env, int target_sig, int host_sig) "env=%p signal %d (host %d)"
user_handle_signal(void *env, int target_sig) "env=%p signal %d"
user_host_signal(void *env, int host_sig, int target_sig) "env=%p signal %d (target %d("
user_queue_signal(void *env, int target_sig) "env=%p signal %d"
/*
*  arm sysarch() system call emulation
*
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```

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*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

/* Compare to arm/arm/locore.S ENTRY_NP(sigcode) */
static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{
   int i;
   uint32_t sys_exit
 = TARGET_FREEBSD_NR_exit;
   uint32_t sigtramp_code[] = {
   /* 1 */ 0xE1A0000D,                  /* mov r0, sp */
   /* 2 */ 0xE2800000 + sigf_uc,        /* add r0, r0, #SIGF_UC */
   /* 3 */ 0xE59F700C,                  /* ldr r7, [pc, #12] */
   /* 4 */ 0xEF000000 + sys_sigreturn,  /* swi (SYS_sigreturn) */
   /* 5 */ 0xE59F7008,                  /* ldr r7, [pc, #8] */
   /* 6 */ 0xEF000000 + sys_exit,       /* swi (SYS_exit)*/
   /* 7 */ 0xEAFFFFFA,                  /* b . -16 */
   /* 8 */ sys_sigreturn,
   /* 9 */ sys_exit
   };

   G_STATIC_ASSERT(sizeof(sigtramp_code) == TARGET_SZSIGCODE);

   for (i = 0; i < 9; i++) {
      tswap32s(&sigtramp_code[i]);
   }

   return memcpy_to_target(offset, sigtramp_code, TARGET_SZSIGCODE);
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/*
*  arm ELF definitions
*
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```

```
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*/

#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x500000

#define elf_check_arch(x) ((x) == EM_ARM)

#define ELF_CLASS       ELFCLASS32
#define ELF_DATA        ELFDATA2LSB
#define ELF_ARCH        EM_ARM

#define USE_ELF_CORE_DUMP
#define
 ELF_EXEC_PAGESIZE       4096

#define ELF_HWCAP get_elf_hwcap()
#define ELF_HWCAP2 get_elf_hwcap2()

#define GET_FEATURE(feat, hwcap) \
   do { if (arm_feature(&cpu->env, feat)) { hwcaps |= hwcap; } } while (0)

#define GET_FEATURE_ID(feat, hwcap) \
   do { if (cpu_isar_feature(feat, cpu)) { hwcaps |= hwcap; } } while (0)

enum {
   ARM_HWCAP_ARM_SWP       = 1 << 0,
   ARM_HWCAP_ARM_HALF      = 1 << 1,
   ARM_HWCAP_ARM_THUMB     = 1 << 2,
   ARM_HWCAP_ARM_26BIT     = 1 << 3,
   ARM_HWCAP_ARM_FAST_MULT = 1 << 4,
   ARM_HWCAP_ARM_FPA       = 1 << 5,
   ARM_HWCAP_ARM_VFP       = 1 << 6,
   ARM_HWCAP_ARM_EDSP      = 1 << 7,
   ARM_HWCAP_ARM_JAVA      = 1 << 8,
   ARM_HWCAP_ARM_IWMMXT    = 1 << 9,
   ARM_HWCAP_ARM_CRUNCH    = 1 << 10,
   ARM_HWCAP_ARM_THUMBEE   = 1 << 11,
```

```
  ARM_HWCAP_ARM_NEON      = 1 << 12,
  ARM_HWCAP_ARM_VFPv3     = 1 << 13,
  ARM_HWCAP_ARM_VFPv3D16  = 1 << 14,
  ARM_HWCAP_ARM_TLS       = 1 << 15,
  ARM_HWCAP_ARM_VFPv4     = 1 << 16,
  ARM_HWCAP_ARM_IDIVA
   = 1 << 17,
  ARM_HWCAP_ARM_IDIVT     = 1 << 18,
  ARM_HWCAP_ARM_VFPD32    = 1 << 19,
  ARM_HWCAP_ARM_LPAE      = 1 << 20,
  ARM_HWCAP_ARM_EVTSTRM   = 1 << 21,
};

enum {
  ARM_HWCAP2_ARM_AES      = 1 << 0,
  ARM_HWCAP2_ARM_PMULL    = 1 << 1,
  ARM_HWCAP2_ARM_SHA1     = 1 << 2,
  ARM_HWCAP2_ARM_SHA2     = 1 << 3,
  ARM_HWCAP2_ARM_CRC32    = 1 << 4,
};

static uint32_t get_elf_hwcap(void)
{
  ARMCPU *cpu = ARM_CPU(thread_cpu);
  uint32_t hwcaps = 0;

  hwcaps |= ARM_HWCAP_ARM_SWP;
  hwcaps |= ARM_HWCAP_ARM_HALF;
  hwcaps |= ARM_HWCAP_ARM_THUMB;
  hwcaps |= ARM_HWCAP_ARM_FAST_MULT;

  /* probe for the extra features */
  /* EDSP is in v5TE and above */
  GET_FEATURE(ARM_FEATURE_V5, ARM_HWCAP_ARM_EDSP);
  GET_FEATURE(ARM_FEATURE_IWMMXT, ARM_HWCAP_ARM_IWMMXT);
  GET_FEATURE(ARM_FEATURE_THUMB2EE, ARM_HWCAP_ARM_THUMBEE);
  GET_FEATURE(ARM_FEATURE_NEON, ARM_HWCAP_ARM_NEON);
  GET_FEATURE(ARM_FEATURE_V6K, ARM_HWCAP_ARM_TLS);
  GET_FEATURE(ARM_FEATURE_LPAE,
 ARM_HWCAP_ARM_LPAE);
  GET_FEATURE_ID(aa32_arm_div, ARM_HWCAP_ARM_IDIVA);
  GET_FEATURE_ID(aa32_thumb_div, ARM_HWCAP_ARM_IDIVT);
  GET_FEATURE_ID(aa32_vfp, ARM_HWCAP_ARM_VFP);

  if (cpu_isar_feature(aa32_fpsp_v3, cpu) ||
      cpu_isar_feature(aa32_fpdp_v3, cpu)) {
      hwcaps |= ARM_HWCAP_ARM_VFPv3;
      if (cpu_isar_feature(aa32_simd_r32, cpu)) {
```

```
        hwcaps |= ARM_HWCAP_ARM_VFPD32;
      } else {
        hwcaps |= ARM_HWCAP_ARM_VFPv3D16;
      }
    }
    GET_FEATURE_ID(aa32_simdfmac, ARM_HWCAP_ARM_VFPv4);

    return hwcaps;
}

static uint32_t get_elf_hwcap2(void)
{
    ARMCPU *cpu = ARM_CPU(thread_cpu);
    uint32_t hwcaps = 0;

    GET_FEATURE_ID(aa32_aes, ARM_HWCAP2_ARM_AES);
    GET_FEATURE_ID(aa32_pmull, ARM_HWCAP2_ARM_PMULL);
    GET_FEATURE_ID(aa32_sha1, ARM_HWCAP2_ARM_SHA1);
    GET_FEATURE_ID(aa32_sha2, ARM_HWCAP2_ARM_SHA2);
    GET_FEATURE_ID(aa32_crc32, ARM_HWCAP2_ARM_CRC32);
    return hwcaps;
}

#undef GET_FEATURE
#undef
 GET_FEATURE_ID

#endif /* TARGET_ARCH_ELF_H */
/*
*  arm cpu init and loop
*
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*/

#ifndef TARGET_ARCH_CPU_H
```

```
#define TARGET_ARCH_CPU_H

#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "any"

static inline void target_cpu_init(CPUARMState *env,
      struct target_pt_regs *regs)
{
   int i;

   cpsr_write(env,
 regs->uregs[16], CPSR_USER | CPSR_EXEC,
            CPSRWriteByInstr);
   for (i = 0; i < 16; i++) {
      env->regs[i] = regs->uregs[i];
   }
}

static inline void target_cpu_loop(CPUARMState *env)
{
   int trapnr, si_signo, si_code;
   CPUState *cs = env_cpu(env);

   for (;;) {
      cpu_exec_start(cs);
      trapnr = cpu_exec(cs);
      cpu_exec_end(cs);
      process_queued_cpu_work(cs);
      switch (trapnr) {
      case EXCP_UDEF:
      case EXCP_NOCP:
      case EXCP_INVSTATE:
         /*
          * See arm/arm/undefined.c undefinedinstruction();
          *
          * A number of details aren't emulated (they likely don't matter):
          * o Misaligned PC generates ILL_ILLADR (these can't come from qemu)
          * o Thumb-2 instructions generate ILLADR
          * o Both modes implement coprocessor instructions, which we don't
          *   do here. FreeBSD just implements them for the VFP coprocessor
          *   and
 special kernel breakpoints, trace points, dtrace, etc.
          */
         force_sig_fault(TARGET_SIGILL, TARGET_ILL_ILLOPC, env->regs[15]);
         break;
      case EXCP_SWI:
```

```
{
    int ret;
    abi_ulong params = get_sp_from_cpustate(env);
    int32_t syscall_nr = env->regs[7];
    int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

    /* See arm/arm/syscall.c cpu_fetch_syscall_args() */
    if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
        syscall_nr = env->regs[0];
        arg1 = env->regs[1];
        arg2 = env->regs[2];
        arg3 = env->regs[3];
        get_user_s32(arg4, params);
        params += sizeof(int32_t);
        get_user_s32(arg5, params);
        params += sizeof(int32_t);
        get_user_s32(arg6, params);
        params += sizeof(int32_t);
         get_user_s32(arg7, params);
        arg8 = 0;
    } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
        syscall_nr = env->regs[0];
        arg1 = env->regs[2];
        arg2 = env->regs[3];
        get_user_s32(arg3, params);
        params += sizeof(int32_t);
        get_user_s32(arg4, params);
        params += sizeof(int32_t);
        get_user_s32(arg5, params);
        params += sizeof(int32_t);
        get_user_s32(arg6, params);
        arg7 = 0;
        arg8 = 0;
    } else {
        arg1 = env->regs[0];
        arg2 = env->regs[1];
        arg3 = env->regs[2];
        arg4 = env->regs[3];
        get_user_s32(arg5, params);
        params += sizeof(int32_t);
        get_user_s32(arg6,
params);
        params += sizeof(int32_t);
        get_user_s32(arg7, params);
        params += sizeof(int32_t);
        get_user_s32(arg8, params);
    }
    ret = do_freebsd_syscall(env, syscall_nr, arg1, arg2, arg3,
```

```
                                arg4, arg5, arg6, arg7, arg8);
            /*
             * Compare to arm/arm/vm_machdep.c
             * cpu_set_syscall_retval()
             */
            if (-TARGET_EJUSTRETURN == ret) {
                /*
                 * Returning from a successful sigreturn syscall.
                 * Avoid clobbering register state.
                 */
                break;
            }
            if (-TARGET_ERESTART == ret) {
                env->regs[15] -= env->thumb ? 2 : 4;
                break;
            }
            if ((unsigned int)ret >= (unsigned int)(-515)) {

ret = -ret;
                cpsr_write(env, CPSR_C, CPSR_C, CPSRWriteByInstr);
                env->regs[0] = ret;
            } else {
                cpsr_write(env, 0, CPSR_C, CPSRWriteByInstr);
                env->regs[0] = ret; /* XXX need to handle lseek()? */
                /* env->regs[1] = 0; */
            }
        }
        break;
    case EXCP_INTERRUPT:
        /* just indicate that signals should be handled asap */
        break;
    case EXCP_PREFETCH_ABORT:
    case EXCP_DATA_ABORT:
        /*
         * See arm/arm/trap-v6.c prefetch_abort_handler() and
         * data_abort_handler()
         *
         * However, FreeBSD maps these to a generic value and then uses that
         * to maybe fault in pages in vm/vm_fault.c:vm_fault_trap(). I
         * believe that the indirection maps the same as Linux, but haven't
         * chased down every single possible indirection.

       */

        /* For user-only we don't set TTBCR_EAE, so look at the FSR. */
        switch (env->exception.fsr & 0x1f) {
        case 0x1: /* Alignment */
            si_signo = TARGET_SIGBUS;
```

```
            si_code = TARGET_BUS_ADRALN;
            break;
        case 0x3: /* Access flag fault, level 1 */
        case 0x6: /* Access flag fault, level 2 */
        case 0x9: /* Domain fault, level 1 */
        case 0xb: /* Domain fault, level 2 */
        case 0xd: /* Permission fault, level 1 */
        case 0xf: /* Permission fault, level 2 */
            si_signo = TARGET_SIGSEGV;
            si_code = TARGET_SEGV_ACCERR;
            break;
        case 0x5: /* Translation fault, level 1 */
        case 0x7: /* Translation fault, level 2 */
            si_signo = TARGET_SIGSEGV;
            si_code = TARGET_SEGV_MAPERR;
            break;
        default:
            g_assert_not_reached();

        }
        force_sig_fault(si_signo, si_code, env->exception.vaddress);
        break;
    case EXCP_DEBUG:
    case EXCP_BKPT:
        force_sig_fault(TARGET_SIGTRAP, TARGET_TRAP_BRKPT, env->regs[15]);
        break;
    case EXCP_YIELD:
        /* nothing to do here for user-mode, just resume guest code */
        break;
    case EXCP_ATOMIC:
        cpu_exec_step_atomic(cs);
        break;
    default:
        fprintf(stderr, "qemu: unhandled CPU exception 0x%x - aborting\n",
                trapnr);
        cpu_dump_state(cs, stderr, 0);
        abort();
    } /* switch() */
    process_pending_signals(env);
  } /* for (;;) */
}

static inline void target_cpu_clone_regs(CPUARMState *env, target_ulong newsp)
{
  if (newsp) {
    env->regs[13] = newsp;
  }
  env->regs[0] = 0;
```

```
}

static inline void target_cpu_reset(CPUArchState *env)
{
}

#endif /* TARGET_ARCH_CPU_H */
/*
* Intel x86_64 specific prototypes for bsd-user
*
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*/

#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

/* target_arch_cpu.c */
void bsd_x86_64_write_dt(void *ptr, unsigned long addr, unsigned long limit,
             int flags);
void bsd_x86_64_set_idt(int n, unsigned int dpl);
void bsd_x86_64_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* TARGET_ARCH_H */
/*
*  openbsd ELF definitions
*
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*/

#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)
```

```
/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                  abi_ulong stringp,
                                  struct elfhdr *exec,
                                  abi_ulong load_addr,
                                   abi_ulong load_bias,
                                  abi_ulong interp_load_addr,
                                  struct image_info *info)
{
      abi_ulong sp;
      int size;
      abi_ulong u_platform;
      const char *k_platform;
      const int n = sizeof(elf_addr_t);

      sp = p;
      u_platform = 0;
      k_platform = ELF_PLATFORM;
      if (k_platform) {
          size_t len = strlen(k_platform) + 1;
          sp -= (len + n - 1) & ~(n - 1);
          u_platform = sp;
          /* FIXME - check return value of memcpy_to_target() for failure */
          memcpy_to_target(sp, k_platform, len);
      }
      /*
       * Force 16 byte _final_ alignment here for generality.
       */
      sp = sp & ~(abi_ulong)15;
      size = (DLINFO_ITEMS + 1) * 2;
      if (k_platform) {
          size += 2;
      }
#ifdef DLINFO_ARCH_ITEMS
      size += DLINFO_ARCH_ITEMS * 2;
#endif
       size += envc + argc + 2;
      size += 1;                    /* argc itself */
      size *= n;
      if (size & 15) {
          sp -= 16 - (size & 15);
```

```
    }

    /*
     * OpenBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
        sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
      } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    NEW_AUX_ENT(AT_UID,
 (abi_ulong)getuid());
    NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
    NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
    if (k_platform) {
        NEW_AUX_ENT(AT_PLATFORM, u_platform);
    }
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* TARGET_OS_ELF_H */
```

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Version 3, 29 June 2007

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```
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*  FreeBSD arm register structures
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*/

#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/arm/include/reg.h */
typedef struct target_reg {
```

```
   uint32_t        r[13];
   uint32_t        r_sp;
   uint32_t        r_lr;
   uint32_t        r_pc;
   uint32_t        r_cpsr;
} target_reg_t;

typedef
 struct target_fp_reg {
   uint32_t        fp_exponent;
   uint32_t        fp_mantissa_hi;
   u_int32_t       fp_mantissa_lo;
} target_fp_reg_t;

typedef struct target_fpreg {
   uint32_t        fpr_fpsr;
   target_fp_reg_t fpr[8];
} target_fpreg_t;

#define tswapreg(ptr)   tswapal(ptr)

static inline void target_copy_regs(target_reg_t *regs, const CPUARMState *env)
{
   int i;

   for (i = 0; i < 13; i++) {
       regs->r[i] = tswapreg(env->regs[i + 1]);
   }
   regs->r_sp = tswapreg(env->regs[13]);
   regs->r_lr = tswapreg(env->regs[14]);
   regs->r_pc = tswapreg(env->regs[15]);
   regs->r_cpsr = tswapreg(cpsr_read((CPUARMState *)env));
}

#undef tswapreg

#endif /* TARGET_ARCH_REG_H */
#ifndef TARGET_OS_SIGNAL_H
#define TARGET_OS_SIGNAL_H

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

abi_long setup_sigframe_arch(CPUArchState *env, abi_ulong frame_addr,
                             struct target_sigframe *frame, int flags);

/* Compare to sys/signal.h */
#define TARGET_SIGHUP  1       /* hangup */
```

```
#define TARGET_SIGINT  2       /* interrupt */
#define TARGET_SIGQUIT 3       /* quit */
#define TARGET_SIGILL  4       /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5       /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6       /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7       /* EMT instruction */
#define TARGET_SIGFPE  8       /* floating point exception */
#define TARGET_SIGKILL 9       /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10      /* bus error */
#define TARGET_SIGSEGV 11      /* segmentation violation */
#define TARGET_SIGSYS  12      /*
 bad argument to system call */
#define TARGET_SIGPIPE 13      /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for output if(tp->t_local&LTOSTOP)*/
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF 27      /*
 profiling time alarm */
#define TARGET_SIGWINCH 28     /* window size changes */
#define TARGET_SIGINFO  29     /* information request */
#define TARGET_SIGUSR1 30      /* user defined signal 1 */
#define TARGET_SIGUSR2 31      /* user defined signal 2 */
#define TARGET_SIGTHR 32       /* reserved by thread library */
#define TARGET_SIGLWP SIGTHR   /* compatibility */
#define TARGET_SIGLIBRT 33     /* reserved by the real-time library */
#define TARGET_SIGRTMIN 65
#define TARGET_SIGRTMAX 126

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL      ((abi_long)0)   /* default signal handling */
#define TARGET_SIG_IGN      ((abi_long)1)   /* ignore signal */
#define TARGET_SIG_ERR      ((abi_long)-1)  /* error return from signal */

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
```

```
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004
  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER   0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK        1   /* block specified signal set */
#define TARGET_SIG_UNBLOCK      2   /* unblock specified signal set */
#define TARGET_SIG_SETMASK      3   /* set specified signal set */

#define TARGET_BADSIG           SIG_ERR

/*
* sigaltstack control
*/
#define TARGET_SS_ONSTACK 0x0001  /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004  /* disable taking signals on alternate stack*/

#endif /* TARGET_OS_SIGNAL_H */
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```
/*
*  Intel x86_64 VM parameters definitions
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*/

#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to amd64/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)            /* max text size */
#define TARGET_DFLDSIZ  (32 * GiB)             /* initial data
 size limit */
#define TARGET_MAXDSIZ  (32 * GiB)             /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)              /* initial stack size limit */
#define TARGET_MAXSSIZ  (512 * MiB)            /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)            /* amount to grow stack */

#define TARGET_VM_MAXUSER_ADDRESS   (0x00007fffff000000UL)

#define TARGET_USRSTACK (TARGET_VM_MAXUSER_ADDRESS - TARGET_PAGE_SIZE)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
   return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
   state->regs[R_EDX] = retval2;
}

#endif /* TARGET_ARCH_VMPARAM_H */
```

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#ifndef QEMU_BSD_H
#define QEMU_BSD_H

#include <sys/types.h>
#include <sys/resource.h>
#include <sys/ipc.h>
#include <sys/msg.h>
#include <sys/resource.h>
#include <sys/sem.h>
#include <sys/shm.h>
#include <sys/socket.h>
#include <sys/un.h>
#include <sys/uuid.h>
#include
 <sys/wait.h>
#include <netinet/in.h>

/* bsd-proc.c */
int target_to_host_resource(int code);
rlim_t target_to_host_rlim(abi_llong target_rlim);
abi_llong host_to_target_rlim(rlim_t rlim);
abi_long host_to_target_rusage(abi_ulong target_addr,
      const struct rusage *rusage);
abi_long host_to_target_wrusage(abi_ulong target_addr,
      const struct __wrusage *wrusage);
```

```
int host_to_target_waitstatus(int status);
void h2g_rusage(const struct rusage *rusage,
      struct target_freebsd_rusage *target_rusage);

/* bsd-mem.c */
void target_to_host_ipc_perm__locked(struct ipc_perm *host_ip,
      struct target_ipc_perm *target_ip);
void host_to_target_ipc_perm__locked(struct target_ipc_perm *target_ip,
      struct ipc_perm *host_ip);
abi_long target_to_host_shmid_ds(struct shmid_ds *host_sd,
      abi_ulong target_addr);
abi_long host_to_target_shmid_ds(abi_ulong target_addr,
      struct shmid_ds *host_sd);

#endif /* QEMU_BSD_H */
/*
*  OpenBSD thread dependent code and definitions
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*/

#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"

#endif /* TARGET_OS_THREAD_H */
/*
* Intel x86_64  sigcode for bsd-user
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*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{

  return 0;
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/*
*  qemu bsd user mode definition
*
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*/
#ifndef QEMU_H
#define QEMU_H

#include "cpu.h"
#include "qemu/units.h"
#include "exec/cpu_ldst.h"
#include "exec/exec-all.h"

#undef DEBUG_REMAP

#include "exec/user/abitypes.h"
```

```
extern char **environ;

#include "exec/user/thunk.h"
#include "target_arch.h"
#include "syscall_defs.h"
#include "target_syscall.h"
#include
 "target_os_vmparam.h"
#include "target_os_signal.h"
#include "target.h"
#include "exec/gdbstub.h"
#include "qemu/clang-tsa.h"

#include "qemu-os.h"
/*
* This struct is used to hold certain information about the image.  Basically,
* it replicates in user space what would be certain task_struct fields in the
* kernel
*/
struct image_info {
   abi_ulong load_bias;
   abi_ulong load_addr;
   abi_ulong start_code;
   abi_ulong end_code;
   abi_ulong start_data;
   abi_ulong end_data;
   abi_ulong brk;
   abi_ulong rss;
   abi_ulong start_stack;
   abi_ulong entry;
   abi_ulong code_offset;
   abi_ulong data_offset;
   abi_ulong arg_start;
   abi_ulong arg_end;
   uint32_t  elf_flags;
};

struct emulated_sigtable {
   int pending; /* true if signal is pending */
   target_siginfo_t info;
};

/*
* NOTE: we force a big alignment so that the stack stored after is aligned too
*/
typedef struct TaskState {
   pid_t ts_tid;     /* tid (or pid) of this task
```

```
 */

  struct TaskState *next;
  struct bsd_binprm *bprm;
  struct image_info *info;

  struct emulated_sigtable sync_signal;
  /*
   * TODO: Since we block all signals while returning to the main CPU
   * loop, this needn't be an array
   */
  struct emulated_sigtable sigtab[TARGET_NSIG];
  /*
   * Nonzero if process_pending_signals() needs to do something (either
   * handle a pending signal or unblock signals).
   * This flag is written from a signal handler so should be accessed via
   * the qatomic_read() and qatomic_set() functions. (It is not accessed
   * from multiple threads.)
   */
  int signal_pending;
  /* True if we're leaving a sigsuspend and sigsuspend_mask is valid. */
  bool in_sigsuspend;
  /*
   * This thread's signal mask, as requested by the guest program.
   * The actual signal mask of this thread may differ:
   *  + we don't let SIGSEGV and SIGBUS be blocked while running guest code
   *  + sometimes we block all
 signals to avoid races
   */
  sigset_t signal_mask;
  /*
   * The signal mask imposed by a guest sigsuspend syscall, if we are
   * currently in the middle of such a syscall
   */
  sigset_t sigsuspend_mask;

  /* This thread's sigaltstack, if it has one */
  struct target_sigaltstack sigaltstack_used;
} __attribute__((aligned(16))) TaskState;

void stop_all_tasks(void);
extern const char *interp_prefix;
extern const char *qemu_uname_release;

/*
* TARGET_ARG_MAX defines the number of bytes allocated for arguments
* and envelope for the new program. 256k should suffice for a reasonable
* maximum env+arg in 32-bit environments, bump it up to 512k for !ILP32
```

```
* platforms.
*/
#if TARGET_ABI_BITS > 32
#define TARGET_ARG_MAX (512 * KiB)
#else
#define TARGET_ARG_MAX (256 * KiB)
#endif
#define MAX_ARG_PAGES (TARGET_ARG_MAX / TARGET_PAGE_SIZE)

/*
* This structure is used to hold the arguments that are
* used when loading binaries.
*/
struct bsd_binprm {
        char
 buf[128];
        void *page[MAX_ARG_PAGES];
        abi_ulong p;
        abi_ulong stringp;
        int fd;
        int e_uid, e_gid;
        int argc, envc;
        char **argv;
        char **envp;
        char *filename;         /* (Given) Name of binary */
        char *fullpath;         /* Full path of binary */
        int (*core_dump)(int, CPUArchState *);
};

void do_init_thread(struct target_pt_regs *regs, struct image_info *infop);
abi_ulong loader_build_argptr(int envc, int argc, abi_ulong sp,
                              abi_ulong stringp);
int loader_exec(const char *filename, char **argv, char **envp,
                struct target_pt_regs *regs, struct image_info *infop,
                struct bsd_binprm *bprm);

int load_elf_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int load_flt_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int is_target_elf_binary(int
 fd);

abi_long memcpy_to_target(abi_ulong dest, const void *src,
                          unsigned long len);
void target_set_brk(abi_ulong new_brk);
abi_long do_brk(abi_ulong new_brk);
void syscall_init(void);
```

```
abi_long do_freebsd_syscall(void *cpu_env, int num, abi_long arg1,
                        abi_long arg2, abi_long arg3, abi_long arg4,
                        abi_long arg5, abi_long arg6, abi_long arg7,
                        abi_long arg8);
abi_long do_netbsd_syscall(void *cpu_env, int num, abi_long arg1,
                       abi_long arg2, abi_long arg3, abi_long arg4,
                       abi_long arg5, abi_long arg6);
abi_long do_openbsd_syscall(void *cpu_env, int num, abi_long arg1,
                        abi_long arg2, abi_long arg3, abi_long arg4,
                        abi_long arg5, abi_long arg6);
void gemu_log(const char *fmt, ...) G_GNUC_PRINTF(1, 2);
extern __thread CPUState *thread_cpu;
void cpu_loop(CPUArchState *env);
char
 *target_strerror(int err);
int get_osversion(void);
void fork_start(void);
void fork_end(int child);

#include "qemu/log.h"

/* strace.c */
struct syscallname {
   int nr;
   const char *name;
   const char *format;
   void (*call)(const struct syscallname *,
              abi_long, abi_long, abi_long,
              abi_long, abi_long, abi_long);
   void (*result)(const struct syscallname *, abi_long);
};

void
print_freebsd_syscall(int num,
                    abi_long arg1, abi_long arg2, abi_long arg3,
                    abi_long arg4, abi_long arg5, abi_long arg6);
void print_freebsd_syscall_ret(int num, abi_long ret);
void
print_netbsd_syscall(int num,
                   abi_long arg1, abi_long arg2, abi_long arg3,
                   abi_long arg4, abi_long arg5, abi_long arg6);
void print_netbsd_syscall_ret(int num, abi_long ret);
void
print_openbsd_syscall(int num,
                    abi_long arg1, abi_long arg2, abi_long arg3,

 abi_long arg4, abi_long arg5, abi_long arg6);
void print_openbsd_syscall_ret(int num, abi_long ret);
```

```
/**
* print_taken_signal:
* @target_signum: target signal being taken
* @tinfo: target_siginfo_t which will be passed to the guest for the signal
*
* Print strace output indicating that this signal is being taken by the guest,
* in a format similar to:
* --- SIGSEGV {si_signo=SIGSEGV, si_code=SI_KERNEL, si_addr=0} ---
*/
void print_taken_signal(int target_signum, const target_siginfo_t *tinfo);
extern int do_strace;

/* mmap.c */
int target_mprotect(abi_ulong start, abi_ulong len, int prot);
abi_long target_mmap(abi_ulong start, abi_ulong len, int prot,
                     int flags, int fd, off_t offset);
int target_munmap(abi_ulong start, abi_ulong len);
abi_long target_mremap(abi_ulong old_addr, abi_ulong old_size,
                       abi_ulong new_size, unsigned long flags,
                       abi_ulong new_addr);
int target_msync(abi_ulong start, abi_ulong len, int flags);
extern
 abi_ulong mmap_next_start;
abi_ulong mmap_find_vma(abi_ulong start, abi_ulong size);
void mmap_reserve(abi_ulong start, abi_ulong size);
void TSA_NO_TSA mmap_fork_start(void);
void TSA_NO_TSA mmap_fork_end(int child);

/* main.c */
extern char qemu_proc_pathname[];
extern unsigned long target_maxtsiz;
extern unsigned long target_dfldsiz;
extern unsigned long target_maxdsiz;
extern unsigned long target_dflssiz;
extern unsigned long target_maxssiz;
extern unsigned long target_sgrowsiz;

/* os-syscall.c */
abi_long get_errno(abi_long ret);
bool is_error(abi_long ret);
int host_to_target_errno(int err);

/* os-proc.c */
abi_long freebsd_exec_common(abi_ulong path_or_fd, abi_ulong guest_argp,
      abi_ulong guest_envp, int do_fexec);
abi_long do_freebsd_procctl(void *cpu_env, int idtype, abi_ulong arg2,
      abi_ulong arg3, abi_ulong arg4, abi_ulong arg5, abi_ulong arg6);
```

```
/* os-sys.c */
abi_long do_freebsd_sysctl(CPUArchState *env, abi_ulong namep, int32_t namelen,

    abi_ulong oldp, abi_ulong oldlenp, abi_ulong newp, abi_ulong newlen);
abi_long do_freebsd_sysctlbyname(CPUArchState *env, abi_ulong namep,
      int32_t namelen, abi_ulong oldp, abi_ulong oldlenp, abi_ulong newp,
      abi_ulong newlen);
abi_long do_freebsd_sysarch(void *cpu_env, abi_long arg1, abi_long arg2);

/* user access */

#define VERIFY_READ  PAGE_READ
#define VERIFY_WRITE (PAGE_READ | PAGE_WRITE)

static inline bool access_ok(int type, abi_ulong addr, abi_ulong size)
{
  return page_check_range((target_ulong)addr, size, type);
}

/*
* NOTE __get_user and __put_user use host pointers and don't check access.
*
* These are usually used to access struct data members once the struct has been
* locked - usually with lock_user_struct().
*/

/*
* Tricky points:
* - Use __builtin_choose_expr to avoid type promotion from ?:,
* - Invalid sizes result in a compile time error stemming from
*   the fact that abort has no parameters.
* - It's easier to use the endian-specific
 unaligned load/store
*   functions than host-endian unaligned load/store plus tswapN.
* - The pragmas are necessary only to silence a clang false-positive
*   warning: see https://bugs.llvm.org/show_bug.cgi?id=39113 .
* - gcc has bugs in its _Pragma() support in some versions, eg
*   https://gcc.gnu.org/bugzilla/show_bug.cgi?id=83256 -- so we only
*   include the warning-suppression pragmas for clang
*/
#if defined(__clang__) && __has_warning("-Waddress-of-packed-member")
#define PRAGMA_DISABLE_PACKED_WARNING                          \
  _Pragma("GCC diagnostic push");                              \
  _Pragma("GCC diagnostic ignored \"-Waddress-of-packed-member\"")

#define PRAGMA_REENABLE_PACKED_WARNING          \
  _Pragma("GCC diagnostic pop")
```

```
#else
#define PRAGMA_DISABLE_PACKED_WARNING
#define PRAGMA_REENABLE_PACKED_WARNING
#endif

#define __put_user_e(x, hptr, e)                                \
  do {
                                \
    PRAGMA_DISABLE_PACKED_WARNING;                              \
    (__builtin_choose_expr(sizeof(*(hptr)) == 1, stb_p,                \
    __builtin_choose_expr(sizeof(*(hptr)) == 2, stw_##e##_p,           \
    __builtin_choose_expr(sizeof(*(hptr)) == 4, stl_##e##_p,           \
    __builtin_choose_expr(sizeof(*(hptr)) == 8, stq_##e##_p, abort))))  \
      ((hptr), (x)), (void)0);                                  \
    PRAGMA_REENABLE_PACKED_WARNING;                              \
  } while (0)

#define __get_user_e(x, hptr, e)                                \
  do {                                                  \
    PRAGMA_DISABLE_PACKED_WARNING;                              \
    ((x) = (typeof(*hptr))(                                     \
    __builtin_choose_expr(sizeof(*(hptr)) == 1, ldub_p,                \

 __builtin_choose_expr(sizeof(*(hptr)) == 2, lduw_##e##_p,           \
    __builtin_choose_expr(sizeof(*(hptr)) == 4, ldl_##e##_p,           \
    __builtin_choose_expr(sizeof(*(hptr)) == 8, ldq_##e##_p, abort))))  \
      (hptr)), (void)0);                                        \
    PRAGMA_REENABLE_PACKED_WARNING;                              \
  } while (0)


#if TARGET_BIG_ENDIAN
# define __put_user(x, hptr)  __put_user_e(x, hptr, be)
# define __get_user(x, hptr)  __get_user_e(x, hptr, be)
#else
# define __put_user(x, hptr)  __put_user_e(x, hptr, le)
# define __get_user(x, hptr)  __get_user_e(x, hptr, le)
#endif

/*
* put_user()/get_user() take a guest address and check access
*
* These are usually used to access an atomic data type, such as an int, that
* has been passed by address.  These internally perform locking and unlocking
* on the data type.
*/
#define put_user(x, gaddr, target_type)                         \
({
```

```
                                                \
  abi_ulong __gaddr = (gaddr);                                  \
  target_type *__hptr;                                          \
  abi_long __ret = 0;                                           \
  __hptr = lock_user(VERIFY_WRITE, __gaddr, sizeof(target_type), 0);  \
  if (__hptr) {                                                 \
      __put_user((x), __hptr);                                  \
      unlock_user(__hptr, __gaddr, sizeof(target_type));            \
  } else                                                        \
      __ret = -TARGET_EFAULT;                                   \
  __ret;                                                        \
})

#define get_user(x, gaddr, target_type)                         \
({                                                              \
  abi_ulong __gaddr = (gaddr);
                    \
  target_type *__hptr;                                          \
  abi_long __ret = 0;                                           \
  __hptr = lock_user(VERIFY_READ, __gaddr, sizeof(target_type), 1);   \
  if (__hptr) {                                                 \
      __get_user((x), __hptr);                                  \
      unlock_user(__hptr, __gaddr, 0);                              \
  } else {                                                      \
      (x) = 0;                                                  \
      __ret = -TARGET_EFAULT;                                   \
  }                                                             \
  __ret;                                                        \
})

#define put_user_ual(x, gaddr) put_user((x), (gaddr), abi_ulong)
#define put_user_sal(x, gaddr) put_user((x), (gaddr), abi_long)
#define put_user_u64(x, gaddr)
 put_user((x), (gaddr), uint64_t)
#define put_user_s64(x, gaddr) put_user((x), (gaddr), int64_t)
#define put_user_u32(x, gaddr) put_user((x), (gaddr), uint32_t)
#define put_user_s32(x, gaddr) put_user((x), (gaddr), int32_t)
#define put_user_u16(x, gaddr) put_user((x), (gaddr), uint16_t)
#define put_user_s16(x, gaddr) put_user((x), (gaddr), int16_t)
#define put_user_u8(x, gaddr)  put_user((x), (gaddr), uint8_t)
#define put_user_s8(x, gaddr)  put_user((x), (gaddr), int8_t)

#define get_user_ual(x, gaddr) get_user((x), (gaddr), abi_ulong)
#define get_user_sal(x, gaddr) get_user((x), (gaddr), abi_long)
#define get_user_u64(x, gaddr) get_user((x), (gaddr), uint64_t)
#define get_user_s64(x, gaddr) get_user((x), (gaddr), int64_t)
#define get_user_u32(x, gaddr) get_user((x), (gaddr), uint32_t)
#define get_user_s32(x, gaddr) get_user((x), (gaddr), int32_t)
```

```
#define get_user_u16(x, gaddr) get_user((x), (gaddr), uint16_t)
#define get_user_s16(x, gaddr) get_user((x), (gaddr), int16_t)
#define get_user_u8(x,
 gaddr)  get_user((x), (gaddr), uint8_t)
#define get_user_s8(x, gaddr)  get_user((x), (gaddr), int8_t)

/*
* copy_from_user() and copy_to_user() are usually used to copy data
* buffers between the target and host.  These internally perform
* locking/unlocking of the memory.
*/
abi_long copy_from_user(void *hptr, abi_ulong gaddr, size_t len);
abi_long copy_to_user(abi_ulong gaddr, void *hptr, size_t len);

/*
* Functions for accessing guest memory.  The tget and tput functions
* read/write single values, byteswapping as necessary.  The lock_user function
* gets a pointer to a contiguous area of guest memory, but does not perform
* any byteswapping.  lock_user may return either a pointer to the guest
* memory, or a temporary buffer.
*/

/*
* Lock an area of guest memory into the host.  If copy is true then the
* host area will have the same contents as the guest.
*/
static inline void *lock_user(int type, abi_ulong guest_addr, long len,

    int copy)
{
   if (!access_ok(type, guest_addr, len)) {
       return NULL;
   }
#ifdef DEBUG_REMAP
   {
       void *addr;
       addr = g_malloc(len);
       if (copy) {
           memcpy(addr, g2h_untagged(guest_addr), len);
       } else {
           memset(addr, 0, len);
       }
       return addr;
   }
#else
   return g2h_untagged(guest_addr);
#endif
}
```

```
/*
* Unlock an area of guest memory.  The first LEN bytes must be flushed back to
* guest memory. host_ptr = NULL is explicitly allowed and does nothing.
*/
static inline void unlock_user(void *host_ptr, abi_ulong guest_addr,
                               long len)
{

#ifdef DEBUG_REMAP
   if (!host_ptr) {
       return;
   }
   if (host_ptr == g2h_untagged(guest_addr)) {
       return;
   }
   if (len > 0) {
       memcpy(g2h_untagged(guest_addr), host_ptr, len);
   }
   g_free(host_ptr);
#endif
}

/*
* Return the length of a string in target memory or -TARGET_EFAULT if access
* error.
*/
abi_long
 target_strlen(abi_ulong gaddr);

/* Like lock_user but for null terminated strings.  */
static inline void *lock_user_string(abi_ulong guest_addr)
{
   abi_long len;
   len = target_strlen(guest_addr);
   if (len < 0) {
       return NULL;
   }
   return lock_user(VERIFY_READ, guest_addr, (long)(len + 1), 1);
}

/* Helper macros for locking/unlocking a target struct.  */
#define lock_user_struct(type, host_ptr, guest_addr, copy)      \
   (host_ptr = lock_user(type, guest_addr, sizeof(*host_ptr), copy))
#define unlock_user_struct(host_ptr, guest_addr, copy)          \
   unlock_user(host_ptr, guest_addr, (copy) ? sizeof(*host_ptr) : 0)

static inline uint64_t target_arg64(uint32_t word0, uint32_t word1)
```

```
{
#if TARGET_ABI_BITS == 32
#if TARGET_BIG_ENDIAN
   return ((uint64_t)word0 << 32) | word1;
#else
   return ((uint64_t)word1 << 32) | word0;
#endif
#else /* TARGET_ABI_BITS != 32 */
   return word0;
#endif /* TARGET_ABI_BITS != 32 */
}

#include <pthread.h>

#include "user/safe-syscall.h"

#endif
 /* QEMU_H */
/*
*  x86_64 cpu init and loop
*
*
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*/

#ifndef TARGET_ARCH_CPU_H
#define TARGET_ARCH_CPU_H

#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu64"

static inline void target_cpu_init(CPUX86State *env,
       struct target_pt_regs *regs)
{
   uint64_t *gdt_table;
```

```
  env->cr[0] = CR0_PG_MASK | CR0_WP_MASK
| CR0_PE_MASK;
  env->hflags |= HF_PE_MASK | HF_CPL_MASK;
  if (env->features[FEAT_1_EDX] & CPUID_SSE) {
      env->cr[4] |= CR4_OSFXSR_MASK;
      env->hflags |= HF_OSFXSR_MASK;
  }

  /* enable 64 bit mode if possible */
  if (!(env->features[FEAT_8000_0001_EDX] & CPUID_EXT2_LM)) {
      fprintf(stderr, "The selected x86 CPU does not support 64 bit mode\n");
      exit(1);
  }
  env->cr[4] |= CR4_PAE_MASK;
  env->efer |= MSR_EFER_LMA | MSR_EFER_LME;
  env->hflags |= HF_LMA_MASK;

  /* flags setup : we activate the IRQs by default as in user mode */
  env->eflags |= IF_MASK;

  /* register setup */
  env->regs[R_EAX] = regs->rax;
  env->regs[R_EBX] = regs->rbx;
  env->regs[R_ECX] = regs->rcx;
  env->regs[R_EDX] = regs->rdx;
  env->regs[R_ESI] = regs->rsi;
  env->regs[R_EDI] = regs->rdi;
  env->regs[R_EBP] = regs->rbp;
  env->regs[R_ESP] = regs->rsp;
  env->eip = regs->rip;

  /* interrupt setup */
  env->idt.limit = 511;


  env->idt.base = target_mmap(0, sizeof(uint64_t) * (env->idt.limit + 1),
      PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  bsd_x86_64_set_idt_base(env->idt.base);
  bsd_x86_64_set_idt(0, 0);
  bsd_x86_64_set_idt(1, 0);
  bsd_x86_64_set_idt(2, 0);
  bsd_x86_64_set_idt(3, 3);
  bsd_x86_64_set_idt(4, 3);
  bsd_x86_64_set_idt(5, 0);
  bsd_x86_64_set_idt(6, 0);
  bsd_x86_64_set_idt(7, 0);
  bsd_x86_64_set_idt(8, 0);
```

```
  bsd_x86_64_set_idt(9, 0);
  bsd_x86_64_set_idt(10, 0);
  bsd_x86_64_set_idt(11, 0);
  bsd_x86_64_set_idt(12, 0);
  bsd_x86_64_set_idt(13, 0);
  bsd_x86_64_set_idt(14, 0);
  bsd_x86_64_set_idt(15, 0);
  bsd_x86_64_set_idt(16, 0);
  bsd_x86_64_set_idt(17, 0);
  bsd_x86_64_set_idt(18, 0);
  bsd_x86_64_set_idt(19, 0);
  bsd_x86_64_set_idt(0x80, 3);

  /* segment setup */
  env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
        PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
   env->gdt.limit = sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
  gdt_table = g2h_untagged(env->gdt.base);

  /* 64 bit code segment */
  bsd_x86_64_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK | DESC_L_MASK
        | (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

  bsd_x86_64_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
        (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

  cpu_x86_load_seg(env, R_CS, __USER_CS);
  cpu_x86_load_seg(env, R_SS, __USER_DS);
  cpu_x86_load_seg(env, R_DS, 0);
  cpu_x86_load_seg(env, R_ES, 0);
  cpu_x86_load_seg(env, R_FS, 0);
  cpu_x86_load_seg(env, R_GS, 0);
}

static inline void target_cpu_loop(CPUX86State *env)
{
  CPUState *cs = env_cpu(env);
  int trapnr;
  abi_ulong pc;
  /* target_siginfo_t info; */

  for (;;) {
     cpu_exec_start(cs);
     trapnr = cpu_exec(cs);
      cpu_exec_end(cs);
     process_queued_cpu_work(cs);
```

```
        switch (trapnr) {
        case EXCP_SYSCALL:
            /* syscall from syscall instruction */
            env->regs[R_EAX] = do_freebsd_syscall(env,
                                    env->regs[R_EAX],
                                    env->regs[R_EDI],
                                    env->regs[R_ESI],
                                    env->regs[R_EDX],
                                    env->regs[R_ECX],
                                    env->regs[8],
                                    env->regs[9], 0, 0);
            env->eip = env->exception_next_eip;
            if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
                env->regs[R_EAX] = -env->regs[R_EAX];
                env->eflags |= CC_C;
            } else {
                env->eflags &= ~CC_C;
            }

       break;

        case EXCP_INTERRUPT:
            /* just indicate that signals should be handled asap */
            break;

        case EXCP_ATOMIC:
            cpu_exec_step_atomic(cs);
            break;

        default:
            pc = env->segs[R_CS].base + env->eip;
            fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                    "aborting\n", (long)pc, trapnr);
            abort();
        }
        process_pending_signals(env);
    }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
{
    if (newsp) {
        env->regs[R_ESP] = newsp;
    }
    env->regs[R_EAX] = 0;
}
```

```
static inline void target_cpu_reset(CPUArchState *env)
{
   cpu_reset(env_cpu(env));
}

#endif /* TARGET_ARCH_CPU_H */
/*
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* SUCH DAMAGE.
*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#ifndef ERRNO_DEFS_H
#define ERRNO_DEFS_H

#define
 TARGET_EPERM           1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
```

```
#define TARGET_ESRCH          3          /* No such process */
#define TARGET_EINTR          4          /* Interrupted system call */
#define TARGET_EIO            5          /* Input/output error */
#define TARGET_ENXIO          6          /* Device not configured */
#define TARGET_E2BIG          7          /* Argument list too long */
#define TARGET_ENOEXEC        8          /* Exec format error */
#define TARGET_EBADF          9          /* Bad file descriptor */
#define TARGET_ECHILD         10         /* No child processes */
#define TARGET_EDEADLK        11         /* Resource deadlock avoided */
                              /* 11 was EAGAIN */
#define TARGET_ENOMEM         12         /* Cannot allocate memory */
#define TARGET_EACCES
        13          /* Permission denied */
#define TARGET_EFAULT         14         /* Bad address */
#define TARGET_ENOTBLK        15         /* Block device required */
#define TARGET_EBUSY          16         /* Device busy */
#define TARGET_EEXIST         17         /* File exists */
#define TARGET_EXDEV          18         /* Cross-device link */
#define TARGET_ENODEV         19         /* Operation not supported by device */
#define TARGET_ENOTDIR        20         /* Not a directory */
#define TARGET_EISDIR         21         /* Is a directory */
#define TARGET_EINVAL         22         /* Invalid argument */
#define TARGET_ENFILE         23         /* Too many open files in system */
#define TARGET_EMFILE         24         /* Too many open files */
#define TARGET_ENOTTY         25         /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY        26         /* Text file busy
 */
#define TARGET_EFBIG          27         /* File too large */
#define TARGET_ENOSPC         28         /* No space left on device */
#define TARGET_ESPIPE         29         /* Illegal seek */
#define TARGET_EROFS          30         /* Read-only file system */
#define TARGET_EMLINK         31         /* Too many links */
#define TARGET_EPIPE          32         /* Broken pipe */

/* math software */
#define TARGET_EDOM           33         /* Numerical argument out of domain */
#define TARGET_ERANGE         34         /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN         35         /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK    EAGAIN     /* Operation would block */
#define TARGET_EINPROGRESS    36         /* Operation now in progress */
#define TARGET_EALREADY 37               /* Operation already in progress */

/* ipc/network software -- argument
 errors */
#define TARGET_ENOTSOCK 38               /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ   39         /* Destination address required */
```

```
#define TARGET_EMSGSIZE 40            /* Message too long */
#define TARGET_EPROTOTYPE      41            /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT      42            /* Protocol not available */
#define TARGET_EPROTONOSUPPORT  43            /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT  44            /* Socket type not supported */
#define TARGET_EOPNOTSUPP      45            /* Operation not supported */
#define TARGET_EPFNOSUPPORT     46            /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT     47            /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE      48            /* Address already in use */
#define TARGET_EADDRNOTAVAIL    49            /* Can't assign requested address */

/* ipc/network software
 -- operational errors */
#define TARGET_ENETDOWN 50            /* Network is down */
#define TARGET_ENETUNREACH      51            /* Network is unreachable */
#define TARGET_ENETRESET        52            /* Network dropped connection on reset */
#define TARGET_ECONNABORTED     53            /* Software caused connection abort */
#define TARGET_ECONNRESET       54            /* Connection reset by peer */
#define TARGET_ENOBUFS          55            /* No buffer space available */
#define TARGET_EISCONN          56            /* Socket is already connected */
#define TARGET_ENOTCONN 57            /* Socket is not connected */
#define TARGET_ESHUTDOWN        58            /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS     59            /* Too many references: can't splice */
#define TARGET_ETIMEDOUT        60            /* Operation timed out */
#define TARGET_ECONNREFUSED     61            /* Connection refused */

#define TARGET_ELOOP
            62            /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG     63            /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN        64            /* Host is down */
#define TARGET_EHOSTUNREACH     65            /* No route to host */
#define TARGET_ENOTEMPTY        66            /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67            /* Too many processes */
#define TARGET_EUSERS           68            /* Too many users */
#define TARGET_EDQUOT           69            /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE           70            /* Stale NFS file handle */
#define TARGET_EREMOTE          71            /* Too many levels of remote in path */
#define TARGET_EBADRPC          72            /* RPC struct is bad */
#define TARGET_ERPCMISMATCH     73            /* RPC version wrong */
#define TARGET_EPROGUNAVAIL     74            /* RPC
 prog. not avail */
#define TARGET_EPROGMISMATCH    75            /* Program version wrong */
```

```
#define TARGET_EPROCUNAVAIL     76              /* Bad procedure for program */

#define TARGET_ENOLCK           77              /* No locks available */
#define TARGET_ENOSYS           78              /* Function not implemented */

#define TARGET_EFTYPE           79              /* Inappropriate file type or format */
#define TARGET_EAUTH            80              /* Authentication error */
#define TARGET_ENEEDAUTH        81              /* Need authenticator */
#define TARGET_EIPSEC           82              /* IPsec processing failure */
#define TARGET_ENOATTR          83              /* Attribute not found */
#define TARGET_EILSEQ           84              /* Illegal byte sequence */
#define TARGET_ENOMEDIUM        85              /* No medium found */
#define TARGET_EMEDIUMTYPE      86              /* Wrong Medium Type */
#define TARGET_EOVERFLOW        87              /* Conversion overflow
 */
#define TARGET_ECANCELED        88              /* Operation canceled */
#define TARGET_EIDRM            89              /* Identifier removed */
#define TARGET_ENOMSG           90              /* No message of desired type */
#define TARGET_ELAST            90              /* Must be equal largest errno */

/* Internal errors: */
#define TARGET_EJUSTRETURN      254             /* Just return without modifying regs */
#define TARGET_ERESTART         255             /* Restart syscall */

#include "special-errno.h"

_Static_assert(TARGET_ERESTART == QEMU_ERESTARTSYS,
            "TARGET_ERESTART and QEMU_ERESTARTSYS expected to match");

#endif /* ERRNO_DEFS_H */
```

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==========

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```
/*
* Intel x86 specific prototypes for bsd-user
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
```

```
#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

/* target_arch_cpu.c */
void bsd_i386_write_dt(void *ptr, unsigned long addr, unsigned long limit,
            int flags);
void bsd_i386_set_idt(int n, unsigned int dpl);
void bsd_i386_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* TARGET_ARCH_H */
/*
*  i386 VM parameters definitions
*
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*
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*/

#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to i386/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)             /* max text size */
#define TARGET_DFLDSIZ  (128 * MiB)             /* initial data size limit
 */
#define TARGET_MAXDSIZ  (512 * MiB)             /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)               /* initial stack size limit */
#define TARGET_MAXSSIZ  (64 * MiB)              /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)             /* amount to grow stack */

#define TARGET_RESERVED_VA 0xf7000000
```

```
#define TARGET_USRSTACK (0xbfc00000)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
  return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
  state->regs[R_EDX] = retval2;
}

#endif /* TARGET_ARCH_VMPARAM_H */
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+ } else {
+        x86emu_dump_regs();
+ }
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+   printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
```

```
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
      M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/*****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+  // perform the byte swap
+  s32 temp = reg;
+  reg = (temp & 0xFF000000) >> 24;
+  reg |= (temp & 0xFF0000) >> 8;
+  reg |= (temp & 0xFF00) << 8;
+  reg |= (temp & 0xFF) << 24;
+  return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+   START_OF_INSTR();
+   DECODE_PRINTF("BSWAP\t");
+   switch (op2) {
+     case 0xc8:
+       DECODE_PRINTF("EAX\n");
+       M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+       break;
+     case 0xc9:
+       DECODE_PRINTF("ECX\n");
+       M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
```

```
+       break;
+     case 0xca:
+       DECODE_PRINTF("EDX\n");
+       M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+       break;
+     case 0xcb:
+       DECODE_PRINTF("EBX\n");
+       M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+       break;
+     case 0xcc:
+       DECODE_PRINTF("ESP\n");
+       M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+       break;
+     case 0xcd:
+       DECODE_PRINTF("EBP\n");
+       M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+       break;
+     case 0xce:
+       DECODE_PRINTF("ESI\n");
+       M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+       break;
+     case 0xcf:
+       DECODE_PRINTF("EDI\n");
+       M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+       break;
+   }
+   TRACE_AND_STEP();
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
```

```
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
```

```
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
        }
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2598,16 +2612,21 @@

    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val1 = fetch_data_byte(M.x86.R_SI);
```

```
        val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-        M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+
           M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2644,8 +2663,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
           val1 = fetch_data_long(M.x86.R_SI);
           val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
           val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
           cmp_word((u16)val1, (u16)val2);
        }
-        M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
        if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
```

```
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /*
 move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
-      /* move them until CX is ZERO. */
-      count = M.x86.R_CX;
+      /* move them until (E)CX is ZERO. */
+      count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
      M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX = 0;

     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2795,6 +2826,8 @@
         store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
      }
      M.x86.R_DI += inc;
+      if (M.x86.intr & INTR_HALTED)
+         break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2817,11 +2850,16 @@
      inc = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* dont care whether REPE or REPNE */
```

```
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+         else
+             M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
+         if (M.x86.intr & INTR_HALTED)
+
             break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+         M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
          M.x86.R_AX = fetch_data_word(M.x86.R_SI);
       }
       M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+         break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2894,26 +2936,36 @@
       inc = 1;
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
       /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
```

```
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
              break;
+          if (M.x86.intr & INTR_HALTED)
+              break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF))
              break;          /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+              break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
   } else {
@@ -2951,8 +3003,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
       /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
              val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
              cmp_long(M.x86.R_EAX,
```

```
 val);
@@ -2960,16 +3012,21 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
             break;
+          if (M.x86.intr & INTR_HALTED)
+             break;
       }
       M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
       /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
             val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word(M.x86.R_AX, (u16)val);
          }
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+             M.x86.R_ECX -= 1;
+          else
+             M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF))
            break;         /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+             break;
      }
      M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
  } else {
@@ -3238,9 +3300,9 @@
  DECODE_PRINTF("RET\t");
  imm = fetch_word_imm();
  DECODE_PRINTF2("%x\n", imm);
```

```
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3254,9 +3316,9
 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
   DECODE_PRINTF("RETF\t");
   imm = fetch_word_imm();
   DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   M.x86.R_SP += imm;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
```

```
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
        M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4085,8 +4156,10 @@
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
```

```
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
   ip = (s16)fetch_word_imm();
   ip += (s16)M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = (u16)ip;
   DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
   cs = fetch_word_imm();
   DECODE_PRINTF2("%04x:", cs);
   DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
   TRACE_AND_STEP();
   M.x86.R_IP = ip;
   M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
   offset = (s8)fetch_byte_imm();
   target = (u16)(M.x86.R_IP + offset);
   DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
   TRACE_AND_STEP();
   M.x86.R_IP = target;
   DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
   DECODE_PRINTF("REPNE\n");
   TRACE_AND_STEP();
   M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
           break;
```

```
        case 4:         /* jmp word ptr ... */
            destval = fetch_data_word(destoffset);
+             JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            break;
        case 5:         /* jmp far ptr ... */
            destval = fetch_data_word(destoffset);
            destval2 = fetch_data_word(destoffset + 2);
+             JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
```

```
                M.x86.R_ECX : M.x86.R_CX);
-
        while (count--) {
         single_in(size);
         M.x86.R_DI += inc;
         }
       M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
   }
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                M.x86.R_ECX : M.x86.R_CX);
       while (count--) {
         single_out(size);
         M.x86.R_SI += inc;
         }
       M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
          M.x86.R_ECX = 0;
       }
       M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
```

```
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/*****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

/*****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
```

```
 DB(if (DEBUG_IO_TRACE())
        printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()         (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()      (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()            (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()      (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()       (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()         0
# define DEBUG_TRACECALL()      0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
```

```
      0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()      0
# define DEBUG_IO_TRACE()       0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                                   \
 if (DEBUG_TRACECALL())                                 \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                                   \
+# define RETURN_TRACE(u,v,w,x,s)                                   \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                                   \
 if (DEBUG_TRACECALL())                                 \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                                   \
+   if (DEBUG_TRACEJMPREGS()) \
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+// for REP(E|NE) Instructions, we need to decide whether it should be using
+// the 32bit ECX register or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
```

```
@@ -250,7 +253,8 @@
      SYSMODE_SEGOVR_GS
     | \
      SYSMODE_SEGOVR_SS      | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                     mode;
   volatile int              intr;   /* mask of pending interrupts */
- int                     debug;
+    volatile int                     debug;
#ifdef DEBUG
- int                     check;
+    int                     check;
   u16                     saved_ip;
   u16                     saved_cs;
   int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++
 include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)
```

```
void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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```
/*
*  sys/user.h definitions
*
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*/

#ifndef TARGET_OS_USER_H
#define TARGET_OS_USER_H

/*
* from sys/priority.h
*/
struct target_priority {
   uint8_t     pri_class;      /* Scheduling class. */
   uint8_t     pri_level;      /* Normal priority level. */
   uint8_t     pri_native;
     /* Priority before propagation. */
   uint8_t     pri_user;       /* User priority based on p_cpu and p_nice. */
};

/*
* sys/caprights.h
*/
#define TARGET_CAP_RIGHTS_VERSION  0

typedef struct target_cap_rights {
   uint64_t    cr_rights[TARGET_CAP_RIGHTS_VERSION + 2];
} target_cap_rights_t;
```

```
/*
* From sys/_socketaddr_storage.h
*
*/
#define TARGET_SS_MAXSIZE     128U
#define TARGET_SS_ALIGNSIZE   (sizeof(__int64_t))
#define TARGET_SS_PAD1SIZE    (TARGET_SS_ALIGNSIZE - sizeof(unsigned char) - \
      sizeof(uint8_t))
#define TARGET_SS_PAD2SIZE    (TARGET_SS_MAXSIZE - sizeof(unsigned char) - \
      sizeof(uint8_t) - TARGET_SS_PAD1SIZE - TARGET_SS_ALIGNSIZE)

struct target_sockaddr_storage {
  unsigned char   ss_len;         /* address length */
  uint8_t         ss_family;      /* address family */
  char            __ss_pad1[TARGET_SS_PAD1SIZE];
  __int64_t       __ss_align;     /* force desired struct alignment */
  char            __ss_pad2[TARGET_SS_PAD2SIZE];
};

/*
 * from sys/user.h
*/
#define TARGET_KI_NSPARE_INT        2
#define TARGET_KI_NSPARE_LONG       12
#define TARGET_KI_NSPARE_PTR        6

#define TARGET_WMESGLEN             8
#define TARGET_LOCKNAMELEN          8
#define TARGET_TDNAMLEN             16
#define TARGET_COMMLEN              19
#define TARGET_KI_EMULNAMELEN       16
#define TARGET_KI_NGROUPS           16
#define TARGET_LOGNAMELEN           17
#define TARGET_LOGINCLASSLEN        17

#define TARGET_KF_TYPE_NONE         0
#define TARGET_KF_TYPE_VNODE        1
#define TARGET_KF_TYPE_SOCKET       2
#define TARGET_KF_TYPE_PIPE         3
#define TARGET_KF_TYPE_FIFO         4
#define TARGET_KF_TYPE_KQUEUE       5
#define TARGET_KF_TYPE_CRYPTO       6
#define TARGET_KF_TYPE_MQUEUE       7
#define TARGET_KF_TYPE_SHM          8
#define TARGET_KF_TYPE_SEM          9
#define TARGET_KF_TYPE_PTS          10
#define TARGET_KF_TYPE_PROCDESC     11
```

```
#define TARGET_KF_TYPE_DEV          12
#define TARGET_KF_TYPE_UNKNOWN      255

struct
 target_kinfo_proc {
   int32_t     ki_structsize;      /* size of this structure */
   int32_t     ki_layout;          /* reserved: layout identifier */
   abi_ulong   ki_args;            /* address of command arguments */
   abi_ulong   ki_paddr;           /* address of proc */
   abi_ulong   ki_addr;            /* kernel virtual addr of u-area */
   abi_ulong   ki_tracep;          /* pointer to trace file */
   abi_ulong   ki_textvp;          /* pointer to executable file */
   abi_ulong   ki_fd;              /* pointer to open file info */
   abi_ulong   ki_vmspace;         /* pointer to kernel vmspace struct */
   abi_ulong   ki_wchan;           /* sleep address */
   int32_t     ki_pid;             /* Process identifier */
   int32_t     ki_ppid;            /* parent process id */
   int32_t     ki_pgid;            /* process group id */
   int32_t     ki_tpgid;           /* tty process group id */
   int32_t     ki_sid;             /* Process session ID */
    int32_t     ki_tsid;           /* Terminal session ID */
   int16_t     ki_jobc;            /* job control counter */
   int16_t     ki_spare_short1;    /* unused (just here for alignment) */
   int32_t     ki_tdev__freebsd11; /* controlling tty dev */
   target_sigset_t ki_siglist;     /* Signals arrived but not delivered */
   target_sigset_t ki_sigmask;     /* Current signal mask */
   target_sigset_t ki_sigignore;   /* Signals being ignored */
   target_sigset_t ki_sigcatch;    /* Signals being caught by user */

   int32_t     ki_uid;             /* effective user id */
   int32_t     ki_ruid;            /* Real user id */
   int32_t     ki_svuid;           /* Saved effective user id */
   int32_t     ki_rgid;            /* Real group id */
   int32_t     ki_svgid;           /* Saved effective group id */
   int16_t     ki_ngroups;         /* number of groups */
   int16_t     ki_spare_short2;    /* unused (just here for alignment) */
   int32_t     ki_groups[TARGET_KI_NGROUPS];
  /* groups */

   abi_long    ki_size;            /* virtual size */

   abi_long    ki_rssize;          /* current resident set size in pages */
   abi_long    ki_swrss;           /* resident set size before last swap */
   abi_long    ki_tsize;           /* text size (pages) XXX */
   abi_long    ki_dsize;           /* data size (pages) XXX */
   abi_long    ki_ssize;           /* stack size (pages) */

   uint16_t    ki_xstat;           /* Exit status for wait & stop signal */
```

```
uint16_t    ki_acflag;          /* Accounting flags */

uint32_t    ki_pctcpu;          /* %cpu for process during ki_swtime */

uint32_t    ki_estcpu;          /* Time averaged value of ki_cpticks */
uint32_t    ki_slptime;         /* Time since last blocked */
uint32_t    ki_swtime;          /* Time swapped in or out */
uint32_t    ki_cow;             /* number of copy-on-write faults */
uint64_t    ki_runtime;         /* Real time in microsec */

struct
target_freebsd_timeval ki_start;  /* starting time */
struct  target_freebsd_timeval ki_childtime; /* time used by process children */

abi_long    ki_flag;            /* P_* flags */
abi_long    ki_kiflag;          /* KI_* flags (below) */
int32_t     ki_traceflag;       /* Kernel trace points */
char        ki_stat;            /* S* process status */
int8_t      ki_nice;            /* Process "nice" value */
char        ki_lock;            /* Process lock (prevent swap) count */
char        ki_rqindex;         /* Run queue index */
u_char      ki_oncpu_old;       /* Which cpu we are on (legacy) */
u_char      ki_lastcpu_old;     /* Last cpu we were on (legacy) */
char        ki_tdname[TARGET_TDNAMLEN + 1];  /* thread name */
char        ki_wmesg[TARGET_WMESGLEN + 1];   /* wchan message */
char        ki_login[TARGET_LOGNAMELEN + 1]; /* setlogin name */
char        ki_lockname[TARGET_LOCKNAMELEN + 1]; /* lock name */
char
    ki_comm[TARGET_COMMLEN + 1];     /* command name */
char        ki_emul[TARGET_KI_EMULNAMELEN + 1];  /* emulation name */
char        ki_loginclass[TARGET_LOGINCLASSLEN + 1]; /* login class */

char        ki_sparestrings[50];    /* spare string space */
int32_t     ki_spareints[TARGET_KI_NSPARE_INT]; /* spare room for growth */
uint64_t ki_tdev;  /* controlling tty dev */
int32_t     ki_oncpu;           /* Which cpu we are on */
int32_t     ki_lastcpu;         /* Last cpu we were on */
int32_t     ki_tracer;          /* Pid of tracing process */
int32_t     ki_flag2;           /* P2_* flags */
int32_t     ki_fibnum;          /* Default FIB number */
uint32_t    ki_cr_flags;        /* Credential flags */
int32_t     ki_jid;             /* Process jail ID */
int32_t     ki_numthreads;      /* XXXKSE number of threads in total */

int32_t     ki_tid;             /* XXXKSE thread id */

struct  target_priority ki_pri; /*
```

```
 process priority */
  struct  target_freebsd_rusage ki_rusage;  /* process rusage statistics */
      /* XXX - most fields in ki_rusage_ch are not (yet) filled in */
  struct  target_freebsd_rusage ki_rusage_ch; /* rusage of children processes */


  abi_ulong   ki_pcb;            /* kernel virtual addr of pcb */
  abi_ulong   ki_kstack;          /* kernel virtual addr of stack */
  abi_ulong   ki_udata;           /* User convenience pointer */
  abi_ulong   ki_tdaddr;          /* address of thread */

  abi_ulong   ki_spareptrs[TARGET_KI_NSPARE_PTR];  /* spare room for growth */
  abi_long    ki_sparelongs[TARGET_KI_NSPARE_LONG];/* spare room for growth */
  abi_long    ki_sflag;           /* PS_* flags */
  abi_long    ki_tdflags;         /* XXXKSE kthread flag */
};

struct target_kinfo_file {
  int32_t  kf_structsize;  /* Variable size of record. */
  int32_t  kf_type;  /* Descriptor type. */
  int32_t  kf_fd;   /* Array index. */
  int32_t  kf_ref_count;
 /* Reference count. */
  int32_t  kf_flags;  /* Flags. */
  int32_t  kf_pad0;  /* Round to 64 bit alignment. */
  int64_t  kf_offset;  /* Seek location. */
  union {
      struct {
          uint32_t kf_spareint;
          /* Socket domain. */
          int  kf_sock_domain0;
          /* Socket type. */
          int  kf_sock_type0;
          /* Socket protocol. */
          int  kf_sock_protocol0;
          /* Socket address. */
          struct sockaddr_storage kf_sa_local;
          /* Peer address. */
          struct sockaddr_storage kf_sa_peer;
          /* Address of so_pcb. */
          uint64_t kf_sock_pcb;
          /* Address of inp_ppcb. */
          uint64_t kf_sock_inpcb;
          /* Address of unp_conn. */
          uint64_t kf_sock_unpconn;
          /* Send buffer state. */
          uint16_t kf_sock_snd_sb_state;
          /* Receive buffer state. */
```

```
        uint16_t kf_sock_rcv_sb_state;
        /* Round
to 64 bit alignment. */
        uint32_t kf_sock_pad0;
    } kf_sock;
    struct {
        /* Vnode type. */
        int  kf_file_type;
        /* Space for future use */
        int  kf_spareint[3];
        uint64_t kf_spareint64[30];
        /* Vnode filesystem id. */
        uint64_t kf_file_fsid;
        /* File device. */
        uint64_t kf_file_rdev;
        /* Global file id. */
        uint64_t kf_file_fileid;
        /* File size. */
        uint64_t kf_file_size;
        /* Vnode filesystem id, FreeBSD 11 compat. */
        uint32_t kf_file_fsid_freebsd11;
        /* File device, FreeBSD 11 compat. */
        uint32_t kf_file_rdev_freebsd11;
        /* File mode. */
        uint16_t kf_file_mode;
        /* Round to 64 bit alignment. */
        uint16_t kf_file_pad0;
        uint32_t kf_file_pad1;
    } kf_file;
    struct {
        uint32_t kf_spareint[4];

     uint64_t kf_spareint64[32];
        uint32_t kf_sem_value;
        uint16_t kf_sem_mode;
    } kf_sem;
    struct {
        uint32_t kf_spareint[4];
        uint64_t kf_spareint64[32];
        uint64_t kf_pipe_addr;
        uint64_t kf_pipe_peer;
        uint32_t kf_pipe_buffer_cnt;
        /* Round to 64 bit alignment. */
        uint32_t kf_pipe_pad0[3];
    } kf_pipe;
    struct {
        uint32_t kf_spareint[4];
        uint64_t kf_spareint64[32];
```

```
            uint32_t kf_pts_dev_freebsd11;
            uint32_t kf_pts_pad0;
            uint64_t kf_pts_dev;
            /* Round to 64 bit alignment. */
            uint32_t kf_pts_pad1[4];
        } kf_pts;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            int32_t  kf_pid;
        } kf_proc;
    } kf_un;
    uint16_t kf_status;  /* Status flags. */
    uint16_t kf_pad1;  /* Round to 32 bit alignment. */
    int32_t
   _kf_ispare0;  /* Space for more stuff. */
    target_cap_rights_t kf_cap_rights; /* Capability rights. */
    uint64_t _kf_cap_spare; /* Space for future cap_rights_t. */
    /* Truncated before copyout in sysctl */
    char  kf_path[PATH_MAX]; /* Path to file, if any. */
};

struct target_kinfo_vmentry {
    int32_t  kve_structsize;  /* Variable size of record. */
    int32_t  kve_type;   /* Type of map entry. */
    uint64_t kve_start;   /* Starting address. */
    uint64_t kve_end;   /* Finishing address. */
    uint64_t kve_offset;   /* Mapping offset in object */
    uint64_t kve_vn_fileid;   /* inode number if vnode */
    uint32_t kve_vn_fsid_freebsd11;  /* dev_t of vnode location */
    int32_t  kve_flags;   /* Flags on map entry. */
    int32_t  kve_resident;   /* Number of resident pages. */
    int32_t  kve_private_resident;  /* Number of private pages. */
    int32_t  kve_protection;  /* Protection bitmask. */
    int32_t  kve_ref_count;   /* VM obj ref count. */
    int32_t
   kve_shadow_count;  /* VM obj shadow count. */
    int32_t  kve_vn_type;   /* Vnode type. */
    uint64_t kve_vn_size;   /* File size. */
    uint32_t kve_vn_rdev_freebsd11;  /* Device id if device. */
    uint16_t kve_vn_mode;   /* File mode. */
    uint16_t kve_status;   /* Status flags. */
#if (__FreeBSD_version >= 1300501 && __FreeBSD_version < 1400000) ||    \
    __FreeBSD_version >= 1400009
    union {
        uint64_t _kve_vn_fsid;  /* dev_t of vnode location */
        uint64_t _kve_obj;  /* handle of anon obj */
    } kve_type_spec;
```

```
#define kve_vn_fsid kve_type_spec._kve_vn_fsid
#define kve_obj  kve_type_spec._kve_obj
#else
   uint64_t kve_vn_fsid;   /* dev_t of vnode location */
#endif
   uint64_t kve_vn_rdev;   /* Device id if device. */
   int  _kve_ispare[8];  /* Space for more stuff. */
   /* Truncated before copyout in sysctl */
   char  kve_path[PATH_MAX];  /* Path to VM obj, if any. */
};

#endif /* TARGET_OS_USER_H */
```

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```
/*
*  System call related declarations
*
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*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/

#ifndef SYSCALL_DEFS_H
#define SYSCALL_DEFS_H

#include <sys/syscall.h>
#include <sys/resource.h>

#include "errno_defs.h"
```

```
#include "freebsd/syscall_nr.h"
#include "netbsd/syscall_nr.h"
#include "openbsd/syscall_nr.h"

/*
* machine/_types.h
 * or x86/_types.h
*/

/*
* time_t seems to be very inconsistly defined for the different *BSD's...
*
* FreeBSD uses a 64bits time_t except on i386
* so we have to add a special case here.
*
* On NetBSD time_t is always defined as an int64_t.  On OpenBSD time_t
* is always defined as an int.
*
*/
#if (!defined(TARGET_I386))
typedef int64_t target_time_t;
#else
typedef int32_t target_time_t;
#endif

struct target_iovec {
   abi_long iov_base;   /* Starting address */
   abi_long iov_len;   /* Number of bytes */
};

/*
* sys/ipc.h
*/
struct target_ipc_perm {
   uint32_t    cuid;       /* creator user id */
   uint32_t    cgid;       /* creator group id */
   uint32_t    uid;        /* user id */
   uint32_t    gid;        /* group id */
   uint16_t    mode;       /* r/w permission */
   uint16_t    seq;        /* sequence # */
   abi_long    key;        /* user specified msg/sem/shm key */
};

#define TARGET_IPC_RMID 0   /* remove identifier */
#define TARGET_IPC_SET
  1   /* set options */
#define TARGET_IPC_STAT 2   /* get options */
```

```
/*
* sys/shm.h
*/
struct target_shmid_ds {
   struct  target_ipc_perm shm_perm; /* peration permission structure */
   abi_ulong   shm_segsz;  /* size of segment in bytes */
   int32_t     shm_lpid;   /* process ID of last shared memory op */
   int32_t     shm_cpid;   /* process ID of creator */
   int32_t     shm_nattch; /* number of current attaches */
   target_time_t shm_atime;  /* time of last shmat() */
   target_time_t shm_dtime;  /* time of last shmdt() */
   target_time_t shm_ctime;  /* time of last change by shmctl() */
};

#define N_BSD_SHM_REGIONS   32
struct bsd_shm_regions {
   abi_long start;
   abi_long size;
};

/*
*  sys/mman.h
*/
#define TARGET_MADV_DONTNEED            4       /* dont need these pages */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented */
                                        /* MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100
 0x0100  /* previously unimplemented */
                                        /* MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400  /* region grows down, like a */
                                        /* stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800  /* page to but do not sync */
                                        /* underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7

#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after */
                                        /* exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400  /* attempt hint address, even */
                                        /* within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is */
                                        /* established */

#define TARGET_NETBSD_MAP_STACK         0x2000  /* allocated from memory, */
```

```
            /* swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after */
                                        /* exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100  /* for MAP_FILE, don't change */
                                        /* file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, */
                                        /* even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

/* XXX */
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

/*
* sys/time.h
* sys/timex.h
*/

typedef abi_long target_freebsd_suseconds_t;

/* compare to sys/timespec.h */
struct target_freebsd_timespec {
   target_time_t   tv_sec;     /* seconds */
   abi_long                tv_nsec;    /* and nanoseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
   abi_long _pad;
#endif
};

#define TARGET_CPUCLOCK_WHICH_PID   0
#define
 TARGET_CPUCLOCK_WHICH_TID   1

/* sys/umtx.h */
struct target_freebsd__umtx_time {
   struct target_freebsd_timespec  _timeout;
   uint32_t    _flags;
   uint32_t    _clockid;
};

struct target_freebsd_timeval {
   target_time_t       tv_sec; /* seconds */
   target_freebsd_suseconds_t  tv_usec;/* and microseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
   abi_long _pad;
```

```
#endif
};

/*
*  sys/resource.h
*/
#define TARGET_RLIM_INFINITY    RLIM_INFINITY

#define TARGET_RLIMIT_CPU       0
#define TARGET_RLIMIT_FSIZE     1
#define TARGET_RLIMIT_DATA      2
#define TARGET_RLIMIT_STACK     3
#define TARGET_RLIMIT_CORE      4
#define TARGET_RLIMIT_RSS       5
#define TARGET_RLIMIT_MEMLOCK   6
#define TARGET_RLIMIT_NPROC     7
#define TARGET_RLIMIT_NOFILE    8
#define TARGET_RLIMIT_SBSIZE    9
#define TARGET_RLIMIT_AS        10
#define TARGET_RLIMIT_NPTS      11
#define TARGET_RLIMIT_SWAP      12

struct target_rlimit {
   uint64_t rlim_cur;
   uint64_t rlim_max;
};

struct
 target_freebsd_rusage {
   struct target_freebsd_timeval ru_utime; /* user time used */
   struct target_freebsd_timeval ru_stime; /* system time used */
   abi_long    ru_maxrss;      /* maximum resident set size */
   abi_long    ru_ixrss;       /* integral shared memory size */
   abi_long    ru_idrss;       /* integral unshared data size */
   abi_long    ru_isrss;       /* integral unshared stack size */
   abi_long    ru_minflt;      /* page reclaims */
   abi_long    ru_majflt;      /* page faults */
   abi_long    ru_nswap;       /* swaps */
   abi_long    ru_inblock;     /* block input operations */
   abi_long    ru_oublock;     /* block output operations */
   abi_long    ru_msgsnd;      /* messages sent */
   abi_long    ru_msgrcv;      /* messages received */
   abi_long    ru_nsignals;    /* signals received */
   abi_long    ru_nvcsw;       /* voluntary context switches */
   abi_long    ru_nivcsw;      /* involuntary context switches */
};

struct
```

```
 target_freebsd__wrusage {
   struct target_freebsd_rusage wru_self;
   struct target_freebsd_rusage wru_children;
};

/*
* sys/stat.h
*/
struct target_freebsd11_stat {
   uint32_t  st_dev;       /* inode's device */
   uint32_t  st_ino;       /* inode's number */
   int16_t   st_mode;      /* inode protection mode */
   int16_t   st_nlink;     /* number of hard links */
   uint32_t  st_uid;       /* user ID of the file's owner */
   uint32_t  st_gid;       /* group ID of the file's group */
   uint32_t  st_rdev;      /* device type */
   struct  target_freebsd_timespec st_atim; /* time last accessed */
   struct  target_freebsd_timespec st_mtim; /* time last data modification */
   struct  target_freebsd_timespec st_ctim; /* time last file status change */
   int64_t    st_size;     /* file size, in bytes */
   int64_t    st_blocks;   /* blocks allocated for file */
   uint32_t   st_blksize;  /* optimal blocksize for I/O */
   uint32_t   st_flags;    /* user defined
 flags for file */
   uint32_t   st_gen;      /* file generation number */
   int32_t    st_lspare;
   struct target_freebsd_timespec st_birthtim; /* time of file creation */
   /*
    * Explicitly pad st_birthtim to 16 bytes so that the size of
    * struct stat is backwards compatible.  We use bitfields instead
    * of an array of chars so that this doesn't require a C99 compiler
    * to compile if the size of the padding is 0.  We use 2 bitfields
    * to cover up to 64 bits on 32-bit machines.  We assume that
    * CHAR_BIT is 8...
    */
   unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
   unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
} __packed;

#if defined(__i386__)
#define TARGET_HAS_STAT_TIME_T_EXT       1
#endif

struct target_stat {
   uint64_t  st_dev;              /* inode's device */
   uint64_t  st_ino;              /* inode's number */
   uint64_t  st_nlink;            /* number of hard links
```

```
 */
   int16_t   st_mode;             /* inode protection mode */
   int16_t   st_padding0;
   uint32_t  st_uid;              /* user ID of the file's owner */
   uint32_t  st_gid;              /* group ID of the file's group */
   int32_t   st_padding1;
   uint64_t  st_rdev;             /* device type */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
   int32_t   st_atim_ext;
#endif
   struct  target_freebsd_timespec st_atim; /* time of last access */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
   int32_t   st_mtim_ext;
#endif
   struct  target_freebsd_timespec st_mtim; /* time of last data modification */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
   int32_t st_ctim_ext;
#endif
   struct  target_freebsd_timespec st_ctim;/* time of last file status change */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
   int32_t st_btim_ext;
#endif
   struct  target_freebsd_timespec st_birthtim;   /* time of file creation */
   int64_t   st_size;             /* file size, in bytes */
   int64_t   st_blocks;
  /* blocks allocated for file */
   uint32_t  st_blksize;          /* optimal blocksize for I/O */
   uint32_t  st_flags;            /* user defined flags for file */
   uint64_t  st_gen;              /* file generation number */
   uint64_t  st_spare[10];
};


/* struct nstat is the same as stat above but without the st_lspare field */
struct target_freebsd11_nstat {
   uint32_t  st_dev;      /* inode's device */
   uint32_t  st_ino;      /* inode's number */
   int16_t   st_mode;     /* inode protection mode */
   int16_t   st_nlink;    /* number of hard links */
   uint32_t  st_uid;      /* user ID of the file's owner */
   uint32_t  st_gid;      /* group ID of the file's group */
   uint32_t  st_rdev;     /* device type */
   struct  target_freebsd_timespec st_atim; /* time last accessed */
   struct  target_freebsd_timespec st_mtim; /* time last data modification */
   struct  target_freebsd_timespec st_ctim; /* time last file status change */
   int64_t
   st_size;     /* file size, in bytes */
   int64_t    st_blocks;   /* blocks allocated for file */
```

```
  uint32_t   st_blksize;  /* optimal blocksize for I/O */
  uint32_t   st_flags;    /* user defined flags for file */
  uint32_t   st_gen;      /* file generation number */
  struct target_freebsd_timespec st_birthtim; /* time of file creation */
  /*
   * Explicitly pad st_birthtim to 16 bytes so that the size of
   * struct stat is backwards compatible.  We use bitfields instead
   * of an array of chars so that this doesn't require a C99 compiler
   * to compile if the size of the padding is 0.  We use 2 bitfields
   * to cover up to 64 bits on 32-bit machines.  We assume that
   * CHAR_BIT is 8...
   */
  unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
  unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
} __packed;

/*
* sys/mount.h
*/

/* filesystem id type */
typedef struct target_freebsd_fsid { int32_t
 val[2]; } target_freebsd_fsid_t;

/* filesystem statistics */
struct target_freebsd11_statfs {
  uint32_t f_version; /* structure version number */
  uint32_t f_type;    /* type of filesystem */
  uint64_t f_flags;   /* copy of mount exported flags */
  uint64_t f_bsize;   /* filesystem fragment size */
  uint64_t f_iosize;  /* optimal transfer block size */
  uint64_t f_blocks;  /* total data blocks in filesystem */
  uint64_t f_bfree;   /* free blocks in filesystem */
  int64_t  f_bavail;  /* free blocks avail to non-superuser */
  uint64_t f_files;   /* total file nodes in filesystem */
  int64_t  f_ffree;   /* free nodes avail to non-superuser */
  uint64_t f_syncwrites;  /* count of sync writes since mount */
  uint64_t f_asyncwrites; /* count of async writes since mount */
  uint64_t f_syncreads;   /* count of sync reads since mount */
  uint64_t f_asyncreads;  /* count of async reads since mount */
  uint64_t f_spare[10];   /* unused spare */

  uint32_t f_namemax; /* maximum filename length */
  uint32_t f_owner;   /* user that mounted the filesystem */
  target_freebsd_fsid_t   f_fsid; /* filesystem id */
  char     f_charspare[80];          /* spare string space */
  char     f_fstypename[16];   /* filesys type name */
  char     f_mntfromname[88];    /* mount filesystem */
```

```
   char     f_mntonname[88];      /* dir on which mounted*/
};

struct target_statfs {
   uint32_t f_version;            /* structure version number */
   uint32_t f_type;               /* type of filesystem */
   uint64_t f_flags;              /* copy of mount exported flags */
   uint64_t f_bsize;              /* filesystem fragment size */
   uint64_t f_iosize;             /* optimal transfer block size */
   uint64_t f_blocks;             /* total data blocks in filesystem */
   uint64_t f_bfree;              /* free blocks in filesystem */
   int64_t  f_bavail;             /* free blocks avail to non-superuser */
   uint64_t
 f_files;              /* total file nodes in filesystem */
   int64_t  f_ffree;              /* free nodes avail to non-superuser */
   uint64_t f_syncwrites;         /* count of sync writes since mount */
   uint64_t f_asyncwrites;        /* count of async writes since mount */
   uint64_t f_syncreads;          /* count of sync reads since mount */
   uint64_t f_asyncreads;         /* count of async reads since mount */
   uint64_t f_spare[10];          /* unused spare */
   uint32_t f_namemax;            /* maximum filename length */
   uint32_t f_owner;              /* user that mounted the filesystem */
   target_freebsd_fsid_t f_fsid;   /* filesystem id */
   char      f_charspare[80];      /* spare string space */
   char      f_fstypename[16];     /* filesystem type name */
   char      f_mntfromname[1024];  /* mounted filesystem */
   char      f_mntonname[1024];    /* directory on which mounted */
};

/* File identifier. These are unique per filesystem
 on a single machine. */
#define TARGET_MAXFIDSZ     16

struct target_freebsd_fid {
   uint16_t    fid_len;           /* len of data in bytes */
   uint16_t    fid_data0;         /* force longword align */
   char        fid_data[TARGET_MAXFIDSZ];  /* data (variable len) */
};

/* Generic file handle */
struct target_freebsd_fhandle {
   target_freebsd_fsid_t   fh_fsid;    /* Filesystem id of mount point */
   struct target_freebsd_fid fh_fid;   /* Filesys specific id */
};
typedef struct target_freebsd_fhandle target_freebsd_fhandle_t;

/*
* sys/fcntl.h
```

```
*/
#define TARGET_F_DUPFD              0
#define TARGET_F_GETFD              1
#define TARGET_F_SETFD              2
#define TARGET_F_GETFL              3
#define TARGET_F_SETFL              4
#define TARGET_F_GETOWN             5
#define TARGET_F_SETOWN             6
#define TARGET_F_OGETLK             7
#define TARGET_F_OSETLK             8
#define TARGET_F_OSETLKW            9
#define TARGET_F_DUP2FD             10
#define
 TARGET_F_GETLK              11
#define TARGET_F_SETLK              12
#define TARGET_F_SETLKW             13
#define TARGET_F_SETLK_REMOTE       14
#define TARGET_F_READAHEAD          15
#define TARGET_F_RDAHEAD            16
#define TARGET_F_DUPFD_CLOEXEC      17
#define TARGET_F_DUP2FD_CLOEXEC     18
/* FreeBSD-specific */
#define TARGET_F_ADD_SEALS          19
#define TARGET_F_GET_SEALS          20

struct target_freebsd_flock {
   int64_t l_start;
   int64_t l_len;
   int32_t l_pid;
   int16_t l_type;
   int16_t l_whence;
   int32_t l_sysid;
} QEMU_PACKED;

/* sys/unistd.h */
/* user: vfork(2) semantics, clear signals */
#define TARGET_RFSPAWN (1U << 31)

/*
* from sys/procctl.h
*/
#define TARGET_PROC_SPROTECT            1
#define TARGET_PROC_REAP_ACQUIRE        2
#define TARGET_PROC_REAP_RELEASE        3
#define TARGET_PROC_REAP_STATUS         4
#define TARGET_PROC_REAP_GETPIDS        5
#define TARGET_PROC_REAP_KILL           6
```

```
struct target_procctl_reaper_status {

  uint32_t rs_flags;
   uint32_t rs_children;
   uint32_t rs_descendants;
   uint32_t rs_reaper;
   uint32_t rs_pid;
   uint32_t rs_pad0[15];
};

struct target_procctl_reaper_pidinfo {
   uint32_t pi_pid;
   uint32_t pi_subtree;
   uint32_t pi_flags;
   uint32_t pi_pad0[15];
};

struct target_procctl_reaper_pids {
   uint32_t rp_count;
   uint32_t rp_pad0[15];
   abi_ulong rp_pids;
};

struct target_procctl_reaper_kill {
   int32_t  rk_sig;
   uint32_t rk_flags;
   uint32_t rk_subtree;
   uint32_t rk_killed;
   uint32_t rk_fpid;
   uint32_t rk_pad0[15];
};


#define safe_syscall0(type, name) \
type safe_##name(void) \
{ \
   return safe_syscall(SYS_##name); \
}

#define safe_syscall1(type, name, type1, arg1) \
type safe_##name(type1 arg1) \
{ \
   return safe_syscall(SYS_##name, arg1); \
}

#define safe_syscall2(type, name, type1, arg1, type2, arg2) \
type safe_##name(type1 arg1, type2 arg2) \
{ \
```

```
   return safe_syscall(SYS_##name, arg1, arg2); \
}

#define safe_syscall3(type,
 name, type1, arg1, type2, arg2, type3, arg3) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3) \
{ \
   return safe_syscall(SYS_##name, arg1, arg2, arg3); \
}

#define safe_syscall4(type, name, type1, arg1, type2, arg2, type3, arg3, \
   type4, arg4) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4) \
{ \
   return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4); \
}

#define safe_syscall5(type, name, type1, arg1, type2, arg2, type3, arg3, \
   type4, arg4, type5, arg5) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4, \
   type5 arg5) \
{ \
   return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4, arg5); \
}

#define safe_syscall6(type, name, type1, arg1, type2, arg2, type3, arg3, \
   type4, arg4, type5, arg5, type6, arg6) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4, \
   type5 arg5, type6 arg6) \
{ \
   return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4, arg5, arg6); \
}

#define safe_fcntl(...)
 safe_syscall(SYS_fcntl, __VA_ARGS__)

/* So far all target and host bitmasks are the same */
#undef  target_to_host_bitmask
#define target_to_host_bitmask(x, tbl) (x)
#undef  host_to_target_bitmask
#define host_to_target_bitmask(x, tbl) (x)

#endif /* SYSCALL_DEFS_H */
#ifndef TARGET_OS_SIGNAL_H
#define TARGET_OS_SIGNAL_H

#include "target_os_siginfo.h"
#include "target_arch_signal.h"
```

```
#define TARGET_SIGHUP  1       /* hangup */
#define TARGET_SIGINT  2       /* interrupt */
#define TARGET_SIGQUIT 3       /* quit */
#define TARGET_SIGILL  4       /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5       /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6       /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7       /* EMT instruction */
#define TARGET_SIGFPE  8       /* floating point exception */
#define TARGET_SIGKILL 9       /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10      /* bus error */
#define TARGET_SIGSEGV 11      /* segmentation violation */
#define TARGET_SIGSYS  12      /* bad argument to system call */
#define TARGET_SIGPIPE 13      /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM
 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for out if (tp->t_local&LTOSTOP) */
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF   27    /* profiling time alarm */
#define TARGET_SIGWINCH  28    /* window size changes */
#define TARGET_SIGINFO   29    /* information request */
#define TARGET_SIGUSR1   30    /* user
 defined signal 1 */
#define TARGET_SIGUSR2   31    /* user defined signal 2 */

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL         ((void (*)(int))0)
#define TARGET_SIG_IGN         ((void (*)(int))1)
#define TARGET_SIG_ERR         ((void (*)(int))-1)

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER   0x0010  /* don't mask the signal we're delivering */
```

```
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK
       1       /* block specified signal set */
#define TARGET_SIG_UNBLOCK     2       /* unblock specified signal set */
#define TARGET_SIG_SETMASK     3       /* set specified signal set */

#define TARGET_BADSIG       SIG_ERR

#define TARGET_SS_ONSTACK 0x0001 /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004 /* disable taking signals on alternate stack */

#endif /* TARGET_OS_SIGNAL_H */
/*
*  x86_64 signal definitions
*
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*/

#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)             /* min sig stack size */
#define TARGET_SIGSTKSZ
```

```
    (MINSIGSTKSZ + 32768)   /* recommended size */

typedef struct target_mcontext {
   abi_ulong   mc_onstack;     /* XXX - sigcontext compat. */
   abi_ulong   mc_rdi;         /* machine state (struct trapframe) */
   abi_ulong   mc_rsi;
   abi_ulong   mc_rdx;
   abi_ulong   mc_rcx;
   abi_ulong   mc_r8;
   abi_ulong   mc_r9;
   abi_ulong   mc_rax;
   abi_ulong   mc_rbx;
   abi_ulong   mc_rbp;
   abi_ulong   mc_r10;
   abi_ulong   mc_r11;
   abi_ulong   mc_r12;
   abi_ulong   mc_r13;
   abi_ulong   mc_r14;
   abi_ulong   mc_r15;
   uint32_t    mc_trapno;
   uint16_t    mc_fs;
   uint16_t    mc_gs;
   abi_ulong   mc_addr;
   uint32_t    mc_flags;
   uint16_t    mc_es;
   uint16_t    mc_ds;
   abi_ulong   mc_err;
   abi_ulong   mc_rip;
   abi_ulong   mc_cs;
   abi_ulong   mc_rflags;
   abi_ulong   mc_rsp;
   abi_ulong   mc_ss;

   abi_long    mc_len;                 /* sizeof(mcontext_t) */

#define _MC_FPFMT_NODEV         0x10000 /* device not present
 or configured */
#define _MC_FPFMT_XMM           0x10002
   abi_long    mc_fpformat;
#define _MC_FPOWNED_NONE        0x20000 /* FP state not used */
#define _MC_FPOWNED_FPU         0x20001 /* FP state came from FPU */
#define _MC_FPOWNED_PCB         0x20002 /* FP state came from PCB */
   abi_long    mc_ownedfp;
   /*
    * See <machine/fpu.h> for the internals of mc_fpstate[].
    */
   abi_long    mc_fpstate[64] __aligned(16);
```

```
  abi_ulong   mc_fsbase;
  abi_ulong   mc_gsbase;

  abi_ulong   mc_xfpustate;
  abi_ulong   mc_xfpustate_len;

  abi_long    mc_spare[4];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 800
#define TARGET_UCONTEXT_SIZE 880

#include "target_os_ucontext.h"

struct target_sigframe {
  abi_ulong   sf_signum;
  abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
  abi_ulong   sf_ucontext;   /* points to sf_uc */
  abi_ulong   sf_addr;       /* undocumented 4th arg */
  target_ucontext_t   sf_uc; /* = *sf_uncontext */
  target_siginfo_t
   sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
  uint32_t    __spare__[2];
};

#endif /* TARGET_ARCH_SIGNAL_H */
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
/*
*  arm thread support
*
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*/

#ifndef TARGET_ARCH_THREAD_H
```

```
#define TARGET_ARCH_THREAD_H

/* Compare to arm/arm/vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUARMState *env, abi_ulong entry,
   abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
   abi_ulong
 sp;

   /*
    * Make sure the stack is properly aligned.
    * arm/include/param.h (STACKLIGN() macro)
    */
   sp = (u_int)(stack_base + stack_size) & ~0x7;

   /* sp = stack base */
   env->regs[13] = sp;
   /* pc = start function entry */
   env->regs[15] = entry & 0xfffffffe;
   /* r0 = arg */
   env->regs[0] = arg;
   env->spsr = ARM_CPU_MODE_USR;
   /*
    * Thumb mode is encoded by the low bit in the entry point (since ARM can't
    * execute at odd addresses). When it's set, set the Thumb bit (T) in the
    * CPSR.
    */
   cpsr_write(env, (entry & 1) * CPSR_T, CPSR_T, CPSRWriteByInstr);
}

static inline void target_thread_init(struct target_pt_regs *regs,
       struct image_info *infop)
{
   abi_long stack = infop->start_stack;
   memset(regs, 0, sizeof(*regs));
   regs->ARM_cpsr = ARM_CPU_MODE_USR;
   /*
    * Thumb mode is encoded by the low bit in the entry point (since ARM can't
    * execute at odd addresses). When it's set, set the Thumb
 bit (T) in the
    * CPSR.
    */
   if (infop->entry & 1) {
       regs->ARM_cpsr |= CPSR_T;
   }
   regs->ARM_pc = infop->entry & 0xfffffffe;
   regs->ARM_sp = stack;
   regs->ARM_lr = infop->entry & 0xfffffffe;
```

```
  /*
   * FreeBSD kernel passes the ps_strings pointer in r0. This is used by some
   * programs to set status messages that we see in ps. bsd-user doesn't
   * support that functionality, so it's ignored. When set to 0, FreeBSD's csu
   * code ignores it. For the static case, r1 and r2 are effectively ignored
   * by the csu __startup() routine. For the dynamic case, rtld saves r0 but
   * generates r1 and r2 and passes them into the csu _startup.
   *
   * r0 ps_strings 0 passed since ps arg setting not supported
   * r1 obj_main   ignored by _start(), so 0 passed
   * r2 cleanup    generated by rtld or ignored by _start(), so 0 passed
   */
}

#endif /* TARGET_ARCH_THREAD_H */
```

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```
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*  process related system call shims and definitions
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#ifndef BSD_PROC_H_
#define BSD_PROC_H_

#include <sys/resource.h>

#include "qemu-bsd.h"
#include "gdbstub/syscalls.h"
#include "qemu/plugin.h"

extern int _getlogin(char*, int);
int bsd_get_ncpu(void);

/* exit(2) */
static inline abi_long
 do_bsd_exit(void *cpu_env, abi_long arg1)
{
   gdb_exit(arg1);
   qemu_plugin_user_exit();
   _exit(arg1);

   return 0;
}

/* getgroups(2) */
static inline abi_long do_bsd_getgroups(abi_long gidsetsize, abi_long arg2)
{
   abi_long ret;
   uint32_t *target_grouplist;
   g_autofree gid_t *grouplist;
   int i;

   grouplist = g_try_new(gid_t, gidsetsize);
   ret = get_errno(getgroups(gidsetsize, grouplist));
   if (gidsetsize != 0) {
       if (!is_error(ret)) {
           target_grouplist = lock_user(VERIFY_WRITE, arg2, gidsetsize * 2, 0);
           if (!target_grouplist) {
               return -TARGET_EFAULT;
           }
           for (i = 0; i < ret; i++) {
               target_grouplist[i] = tswap32(grouplist[i]);
           }
           unlock_user(target_grouplist, arg2, gidsetsize * 2);
```

```
        }
    }
    return ret;
}

/* setgroups(2) */
static inline abi_long do_bsd_setgroups(abi_long gidsetsize, abi_long arg2)
{
    uint32_t *target_grouplist;
     g_autofree gid_t *grouplist;
    int i;

    grouplist = g_try_new(gid_t, gidsetsize);
    target_grouplist = lock_user(VERIFY_READ, arg2, gidsetsize * 2, 1);
    if (!target_grouplist) {
        return -TARGET_EFAULT;
    }
    for (i = 0; i < gidsetsize; i++) {
        grouplist[i] = tswap32(target_grouplist[i]);
    }
    unlock_user(target_grouplist, arg2, 0);
    return get_errno(setgroups(gidsetsize, grouplist));
}

/* umask(2) */
static inline abi_long do_bsd_umask(abi_long arg1)
{
    return get_errno(umask(arg1));
}

/* setlogin(2) */
static inline abi_long do_bsd_setlogin(abi_long arg1)
{
    abi_long ret;
    void *p;

    p = lock_user_string(arg1);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(setlogin(p));
    unlock_user(p, arg1, 0);

    return ret;
}

/* getlogin(2) */
static inline abi_long do_bsd_getlogin(abi_long arg1, abi_long arg2)
```

```
{
   abi_long ret;
   void *p;

   p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
   if (p == NULL)
  {
       return -TARGET_EFAULT;
   }
   ret = get_errno(_getlogin(p, arg2));
   unlock_user(p, arg1, arg2);

   return ret;
}

/* getrusage(2) */
static inline abi_long do_bsd_getrusage(abi_long who, abi_ulong target_addr)
{
   abi_long ret;
   struct rusage rusage;

   ret = get_errno(getrusage(who, &rusage));
   if (!is_error(ret)) {
       host_to_target_rusage(target_addr, &rusage);
   }
   return ret;
}

/* getrlimit(2) */
static inline abi_long do_bsd_getrlimit(abi_long arg1, abi_ulong arg2)
{
   abi_long ret;
   int resource = target_to_host_resource(arg1);
   struct target_rlimit *target_rlim;
   struct rlimit rlim;

   switch (resource) {
   case RLIMIT_STACK:
       rlim.rlim_cur = target_dflssiz;
       rlim.rlim_max = target_maxssiz;
       ret = 0;
       break;

   case RLIMIT_DATA:
       rlim.rlim_cur = target_dfldsiz;
       rlim.rlim_max = target_maxdsiz;
       ret = 0;
       break;
```

```
  default:
      ret = get_errno(getrlimit(resource,
 &rlim));
      break;
  }
  if (!is_error(ret)) {
      if (!lock_user_struct(VERIFY_WRITE, target_rlim, arg2, 0)) {
          return -TARGET_EFAULT;
      }
      target_rlim->rlim_cur = host_to_target_rlim(rlim.rlim_cur);
      target_rlim->rlim_max = host_to_target_rlim(rlim.rlim_max);
      unlock_user_struct(target_rlim, arg2, 1);
  }
  return ret;
}

/* setrlimit(2) */
static inline abi_long do_bsd_setrlimit(abi_long arg1, abi_ulong arg2)
{
  abi_long ret;
  int resource = target_to_host_resource(arg1);
  struct target_rlimit *target_rlim;
  struct rlimit rlim;

  if (RLIMIT_STACK == resource) {
      /* XXX We should, maybe, allow the stack size to shrink */
      ret = -TARGET_EPERM;
  } else {
      if (!lock_user_struct(VERIFY_READ, target_rlim, arg2, 1)) {
          return -TARGET_EFAULT;
      }
      rlim.rlim_cur = target_to_host_rlim(target_rlim->rlim_cur);
      rlim.rlim_max = target_to_host_rlim(target_rlim->rlim_max);
       unlock_user_struct(target_rlim, arg2, 0);
      ret = get_errno(setrlimit(resource, &rlim));
  }
  return ret;
}

/* getpid(2) */
static inline abi_long do_bsd_getpid(void)
{
  return get_errno(getpid());
}

/* getppid(2) */
static inline abi_long do_bsd_getppid(void)
```

```
{
  return get_errno(getppid());
}

/* getuid(2) */
static inline abi_long do_bsd_getuid(void)
{
  return get_errno(getuid());
}

/* geteuid(2) */
static inline abi_long do_bsd_geteuid(void)
{
  return get_errno(geteuid());
}

/* getgid(2) */
static inline abi_long do_bsd_getgid(void)
{
  return get_errno(getgid());
}

/* getegid(2) */
static inline abi_long do_bsd_getegid(void)
{
  return get_errno(getegid());
}

/* setuid(2) */
static inline abi_long do_bsd_setuid(abi_long arg1)
{
  return get_errno(setuid(arg1));
}

/* seteuid(2) */
static inline abi_long do_bsd_seteuid(abi_long arg1)
{
  return get_errno(seteuid(arg1));
}

/* setgid(2) */
static inline abi_long do_bsd_setgid(abi_long arg1)
{
   return get_errno(setgid(arg1));
}

/* setegid(2) */
static inline abi_long do_bsd_setegid(abi_long arg1)
```

```
{
  return get_errno(setegid(arg1));
}

/* getpgid(2) */
static inline abi_long do_bsd_getpgid(pid_t pid)
{
  return get_errno(getpgid(pid));
}

/* setpgid(2) */
static inline abi_long do_bsd_setpgid(int pid, int pgrp)
{
  return get_errno(setpgid(pid, pgrp));
}

/* getpgrp(2) */
static inline abi_long do_bsd_getpgrp(void)
{
  return get_errno(getpgrp());
}

/* setreuid(2) */
static inline abi_long do_bsd_setreuid(abi_long arg1, abi_long arg2)
{
  return get_errno(setreuid(arg1, arg2));
}

/* setregid(2) */
static inline abi_long do_bsd_setregid(abi_long arg1, abi_long arg2)
{
  return get_errno(setregid(arg1, arg2));
}

/* setresgid(2) */
static inline abi_long do_bsd_setresgid(gid_t rgid, gid_t egid, gid_t sgid)
{
  return get_errno(setresgid(rgid, egid, sgid));
}

/* setresuid(2) */
static inline abi_long do_bsd_setresuid(uid_t ruid, uid_t euid, uid_t suid)
{
   return get_errno(setresuid(ruid, euid, suid));
}

/* getresuid(2) */
static inline abi_long do_bsd_getresuid(abi_ulong arg1, abi_ulong arg2,
```

```
        abi_ulong arg3)
{
    abi_long ret;
    uid_t ruid, euid, suid;

    ret = get_errno(getresuid(&ruid, &euid, &suid));
    if (is_error(ret)) {
            return ret;
    }
    if (put_user_s32(ruid, arg1)) {
        return -TARGET_EFAULT;
    }
    if (put_user_s32(euid, arg2)) {
        return -TARGET_EFAULT;
    }
    if (put_user_s32(suid, arg3)) {
        return -TARGET_EFAULT;
    }
    return ret;
}

/* getresgid(2) */
static inline abi_long do_bsd_getresgid(abi_ulong arg1, abi_ulong arg2,
                                        abi_ulong arg3)
{
    abi_long ret;
    uid_t ruid, euid, suid;

    ret = get_errno(getresgid(&ruid, &euid, &suid));
    if (is_error(ret)) {
            return ret;
    }
    if (put_user_s32(ruid, arg1)) {
        return -TARGET_EFAULT;
    }
    if (put_user_s32(euid, arg2)) {
        return -TARGET_EFAULT;
     }
    if (put_user_s32(suid, arg3)) {
        return -TARGET_EFAULT;
    }
    return ret;
}

/* getsid(2) */
static inline abi_long do_bsd_getsid(abi_long arg1)
{
    return get_errno(getsid(arg1));
```

```
}

/* setsid(2) */
static inline abi_long do_bsd_setsid(void)
{
  return get_errno(setsid());
}

/* issetugid(2) */
static inline abi_long do_bsd_issetugid(void)
{
  return get_errno(issetugid());
}

/* profil(2) */
static inline abi_long do_bsd_profil(abi_long arg1, abi_long arg2,
                                     abi_long arg3, abi_long arg4)
{
  return -TARGET_ENOSYS;
}

/* ktrace(2) */
static inline abi_long do_bsd_ktrace(abi_long arg1, abi_long arg2,
                                     abi_long arg3, abi_long arg4)
{
  return -TARGET_ENOSYS;
}

/* utrace(2) */
static inline abi_long do_bsd_utrace(abi_long arg1, abi_long arg2)
{
  return -TARGET_ENOSYS;
}


/* ptrace(2) */
static inline abi_long do_bsd_ptrace(abi_long arg1, abi_long arg2,
      abi_long
 arg3, abi_long arg4)
{
  return -TARGET_ENOSYS;
}

/* getpriority(2) */
static inline abi_long do_bsd_getpriority(abi_long which, abi_long who)
{
  abi_long ret;
  /*
```

```
    * Note that negative values are valid for getpriority, so we must
    * differentiate based on errno settings.
    */
   errno = 0;
   ret = getpriority(which, who);
   if (ret == -1 && errno != 0) {
       return -host_to_target_errno(errno);
   }

   return ret;
}

/* setpriority(2) */
static inline abi_long do_bsd_setpriority(abi_long which, abi_long who,
                                          abi_long prio)
{
   return get_errno(setpriority(which, who, prio));
}

#endif /* !BSD_PROC_H_ */
```

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John R. Hauser
2018 January 20

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```
/*
*  arm signal definitions
*
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*/

#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

#define TARGET_REG_R0   0
#define TARGET_REG_R1   1
#define TARGET_REG_R2   2
#define TARGET_REG_R3   3
#define TARGET_REG_R4   4
#define TARGET_REG_R5   5
#define TARGET_REG_R6   6
#define TARGET_REG_R7
  7
#define TARGET_REG_R8   8
```

```
#define TARGET_REG_R9   9
#define TARGET_REG_R10  10
#define TARGET_REG_R11  11
#define TARGET_REG_R12  12
#define TARGET_REG_R13  13
#define TARGET_REG_R14  14
#define TARGET_REG_R15  15
#define TARGET_REG_CPSR 16
#define TARGET__NGREG   17
/* Convenience synonyms */
#define TARGET_REG_FP   TARGET_REG_R11
#define TARGET_REG_SP   TARGET_REG_R13
#define TARGET_REG_LR   TARGET_REG_R14
#define TARGET_REG_PC   TARGET_REG_R15

#define TARGET_INSN_SIZE    4       /* arm instruction size */

/* Size of the signal trampolin code. See _sigtramp(). */
#define TARGET_SZSIGCODE    ((abi_ulong)(9 * TARGET_INSN_SIZE))

/* compare to arm/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (1024 * 4)                  /* min sig stack size */
#define TARGET_SIGSTKSZ     (TARGET_MINSIGSTKSZ + 32768)  /* recommended size */

/*
* Floating point register state
*/
typedef struct target_mcontext_vfp {
   abi_ullong  mcv_reg[32];
   abi_ulong   mcv_fpscr;
} target_mcontext_vfp_t;

typedef
 struct target_mcontext {
   abi_uint    __gregs[TARGET__NGREG];

   /*
    * Originally, rest of this structure was named __fpu, 35 * 4 bytes
    * long, never accessed from kernel.
    */
   abi_ulong   mc_vfp_size;
   abi_ptr     mc_vfp_ptr;
   abi_int     mc_spare[33];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 208
#define TARGET_UCONTEXT_SIZE 260
```

```
#include "target_os_ucontext.h"

struct target_sigframe {
   target_siginfo_t    sf_si;  /* saved siginfo */
   target_ucontext_t   sf_uc;  /* saved ucontext */
   target_mcontext_vfp_t sf_vfp; /* actual saved VFP context */
};

#endif /* TARGET_ARCH_SIGNAL_H */
/*
* Intel general target stuff that's common to all x86_64 details
*
* Copyright (c) 2022 M. Warner Losh <imp@bsdimp.com>
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*/

#ifndef TARGET_H
#define TARGET_H

/*
* x86 doesn't 'lump' the registers for 64-bit args, all args are 64 bits.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
   return false;
}

#endif /* TARGET_H */
/*
*  FreeBSD i386 register structures
*
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*/
```

```
#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/i386/include/reg.h */
typedef struct target_reg {
   uint32_t        r_fs;
   uint32_t        r_es;
   uint32_t        r_ds;
   uint32_t        r_edi;
   uint32_t
    r_esi;
   uint32_t        r_ebp;
   uint32_t        r_isp;
   uint32_t        r_ebx;
   uint32_t        r_edx;
   uint32_t        r_ecx;
   uint32_t        r_eax;
   uint32_t        r_trapno;
   uint32_t        r_err;
   uint32_t        r_eip;
   uint32_t        r_cs;
   uint32_t        r_eflags;
   uint32_t        r_esp;
   uint32_t        r_ss;
   uint32_t        r_gs;
} target_reg_t;

typedef struct target_fpreg {
   uint32_t        fpr_env[7];
   uint8_t         fpr_acc[8][10];
   uint32_t        fpr_ex_sw;
   uint8_t         fpr_pad[64];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
{

   regs->r_fs = env->segs[R_FS].selector & 0xffff;
   regs->r_es = env->segs[R_ES].selector & 0xffff;
   regs->r_ds = env->segs[R_DS].selector & 0xffff;

   regs->r_edi = env->regs[R_EDI];
   regs->r_esi = env->regs[R_ESI];
   regs->r_ebp = env->regs[R_EBP];
   /* regs->r_isp = env->regs[R_ISP]; XXX */
   regs->r_ebx =
```

```
 env->regs[R_EBX];
  regs->r_edx = env->regs[R_EDX];
  regs->r_ecx = env->regs[R_ECX];
  regs->r_eax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_eip = env->eip;

  regs->r_cs = env->segs[R_CS].selector & 0xffff;

  regs->r_eflags = env->eflags;
  regs->r_esp = env->regs[R_ESP];

  regs->r_ss = env->segs[R_SS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
}

#endif /* TARGET_ARCH_REG_H */
```

1.5553 qemu 8.2.2+ds-0ubuntu1.10

1.5553.1 Available under license :

```
/*
*  x86_64 system call definitions
*
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

#define __USER_CS (0x33)
#define __USER_DS (0x2B)

struct target_pt_regs {
 abi_ulong r15;
```

```
 abi_ulong r14;
 abi_ulong r13;
 abi_ulong r12;
 abi_ulong rbp;
 abi_ulong rbx;
/* arguments: non interrupts/non tracing syscalls only save up to here */
 abi_ulong
 r11;
 abi_ulong r10;
 abi_ulong r9;
 abi_ulong r8;
 abi_ulong rax;
 abi_ulong rcx;
 abi_ulong rdx;
 abi_ulong rsi;
 abi_ulong rdi;
 abi_ulong orig_rax;
/* end of arguments */
/* cpu exception frame or undefined */
 abi_ulong rip;
 abi_ulong cs;
 abi_ulong eflags;
 abi_ulong rsp;
 abi_ulong ss;
/* top of stack page */
};

/* Maximum number of LDT entries supported. */
#define TARGET_LDT_ENTRIES 8192
/* The size of each LDT entry. */
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES 16
#define TARGET_GDT_ENTRY_TLS_ENTRIES 3
#define TARGET_GDT_ENTRY_TLS_MIN 12
#define TARGET_GDT_ENTRY_TLS_MAX 14

#if 0 // Redefine this
struct target_modify_ldt_ldt_s {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
 unsigned int  seg_32bit:1;
 unsigned int  contents:2;
 unsigned int  read_exec_only:1;
 unsigned int  limit_in_pages:1;
 unsigned int  seg_not_present:1;
 unsigned int  useable:1;
```

```
 unsigned int  lm:1;
};
#else
struct target_modify_ldt_ldt_s
 {
 unsigned int  entry_number;
       abi_ulong     base_addr;
 unsigned int  limit;
       unsigned int flags;
};
#endif

struct target_ipc64_perm
{
 int  key;
 uint32_t uid;
 uint32_t gid;
 uint32_t cuid;
 uint32_t cgid;
 unsigned short  mode;
 unsigned short  __pad1;
 unsigned short  seq;
 unsigned short  __pad2;
 abi_ulong  __unused1;
 abi_ulong  __unused2;
};

struct target_msqid64_ds {
 struct target_ipc64_perm msg_perm;
 unsigned int msg_stime; /* last msgsnd time */
 unsigned int msg_rtime; /* last msgrcv time */
 unsigned int msg_ctime; /* last change time */
 abi_ulong  msg_cbytes; /* current number of bytes on queue */
 abi_ulong  msg_qnum; /* number of messages in queue */
 abi_ulong  msg_qbytes; /* max number of bytes on queue */
 unsigned int msg_lspid; /* pid of last msgsnd */
 unsigned int msg_lrpid; /* last receive pid */
 abi_ulong  __unused4;
 abi_ulong  __unused5;
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
    /*
 I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
```

```
   /* xxxxx */
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10

#define TARGET_FREEBSD_AMD64_GET_FSBASE 128
#define TARGET_FREEBSD_AMD64_SET_FSBASE 129
#define TARGET_FREEBSD_AMD64_GET_GSBASE 130
#define TARGET_FREEBSD_AMD64_SET_GSBASE 131


#define UNAME_MACHINE          "x86_64"
#define TARGET_HW_MACHINE      "amd64"
#define TARGET_HW_MACHINE_ARCH  "amd64"

#define TARGET_ARCH_SET_GS 0x1001
#define TARGET_ARCH_SET_FS 0x1002
#define TARGET_ARCH_GET_FS 0x1003
#define TARGET_ARCH_GET_GS 0x1004

#endif /* TARGET_SYSCALL_H */
```

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```
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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___getcwd, "__getcwd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
 "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
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{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_get, "cap_ioctls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_limit,
 "cap_ioctls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
 NULL },
{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{
 TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
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{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
```

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{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
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{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
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{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
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{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
 "freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid",
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{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
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{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname,
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{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
 "freebsd11_lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
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{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
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```
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
 "posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
 "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
 "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
 NULL },
```

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```
/*
*  OpenBSD setup_initial_stack() implementation.
*
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*/

#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
  abi_ulong *stringp)
{
  int i;
  abi_ulong stack_base;

  stack_base
 = (target_stkbas + target_stksiz) -
            MAX_ARG_PAGES * TARGET_PAGE_SIZE;
  if (p) {
     *p = stack_base;
  }
  if (stringp) {
     *stringp = stack_base;
  }

  for (i = 0; i < MAX_ARG_PAGES; i++) {
     if (bprm->page[i]) {
        info->rss++;
        if (!memcpy_to_target(stack_base, bprm->page[i],
                TARGET_PAGE_SIZE)) {
           errno = EFAULT;
```

```
            return -1;
        }
        g_free(bprm->page[i]);
    }
    stack_base += TARGET_PAGE_SIZE;
  }

  return 0;
}

#endif /* TARGET_OS_STACK_H */
```

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*/

#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_netbsd

#endif /* HOST_OS_H */
/*
* FreeBSD has a common ucontext definition for all architectures.
*
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*/
#ifndef TARGET_OS_UCONTEXT_H
#define TARGET_OS_UCONTEXT_H

/*
* Defines the common bits for all of FreeBSD's architectures. Has to be
* included AFTER the MD target_mcontext_t is defined, however, so can't
* be in the grab-bag that is target_os_signal.h.
*/

/* See FreeBSD's sys/ucontext.h */
#define TARGET_MC_GET_CLEAR_RET 0x0001

/* FreeBSD's sys/_ucontext.h structures */
typedef struct target_ucontext {
  target_sigset_t     uc_sigmask;
  target_mcontext_t   uc_mcontext;
```

```
  abi_ulong          uc_link;
  target_stack_t     uc_stack;
  int32_t            uc_flags;
  int32_t            __spare__[4];
} target_ucontext_t;

G_STATIC_ASSERT(TARGET_MCONTEXT_SIZE == sizeof(target_mcontext_t));
G_STATIC_ASSERT(TARGET_UCONTEXT_SIZE == sizeof(target_ucontext_t));

struct target_sigframe;

abi_long
 set_sigtramp_args(CPUArchState *env, int sig,
                   struct target_sigframe *frame,
                   abi_ulong frame_addr,
                   struct target_sigaction *ka);
abi_long get_mcontext(CPUArchState *env, target_mcontext_t *mcp, int flags);
abi_long set_mcontext(CPUArchState *env, target_mcontext_t *mcp, int srflag);
abi_long get_ucontext_sigreturn(CPUArchState *env, abi_ulong target_sf,
                        abi_ulong *target_uc);

#endif /* TARGET_OS_UCONTEXT_H */
```

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```
if not have_bsd_user
  subdir_done()
endif

bsd_user_ss = ss.source_set()

common_user_inc += include_directories('include')

bsd_user_ss.add(files(
 'bsd-mem.c',
 'bsd-proc.c',
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'uaccess.c',
))

elf = cc.find_library('elf', required: true)
procstat = cc.find_library('procstat', required: true)
kvm = cc.find_library('kvm', required: true)
bsd_user_ss.add(elf, procstat, kvm)

# Pull in the OS-specific build glue, if any
subdir(targetos)

specific_ss.add_all(when: 'CONFIG_BSD_USER', if_true: bsd_user_ss)
/*
*  FreeBSD VM parameters definitions
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*/

#ifndef TARGET_OS_VMPARAM_H
#define TARGET_OS_VMPARAM_H

#include "target_arch_vmparam.h"

/* Compare to sys/exec.h */
struct target_ps_strings {
   abi_ulong ps_argvstr;
   uint32_t ps_nargvstr;
   abi_ulong ps_envstr;
   uint32_t ps_nenvstr;
};

extern
 abi_ulong target_stkbas;
extern abi_ulong target_stksiz;

#define TARGET_PS_STRINGS  ((target_stkbas + target_stksiz) - \
                        sizeof(struct target_ps_strings))

#endif /* TARGET_OS_VMPARAM_H */
/*
* host-signal.h: signal info dependent on the host architecture
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*/

#ifndef I386_HOST_SIGNAL_H
#define I386_HOST_SIGNAL_H

#include <sys/param.h>
#include <sys/ucontext.h>
#include <machine/trap.h>
#include <vm/pmap.h>
#include <machine/pmap.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
   return uc->uc_mcontext.mc_eip;
```

```
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.mc_eip = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
{
  /*
   * Look in sys/i386/i386/trap.c. NOTE: mc_err == tr_err due to type punning
   * between a trapframe and mcontext on FreeBSD/i386.
   */
  return uc->uc_mcontext.mc_trapno == T_PAGEFLT &&
      uc->uc_mcontext.mc_err & PGEX_W;
}

#endif
/*
* ARM 32-bit specific prototypes for bsd-user
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*/

#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

#include "qemu.h"
#include "target/arm/cpu-features.h"

void target_cpu_set_tls(CPUARMState *env, target_ulong newtls);
target_ulong target_cpu_get_tls(CPUARMState *env);

#endif /* TARGET_ARCH_H */
```

```
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*  arm VM parameters definitions
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*/

#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to sys/arm/include/vmparam.h */
#define TARGET_MAXTSIZ      (64 * MiB)          /* max text size */
#define TARGET_DFLDSIZ      (128 * MiB)         /* initial data size
 limit */
#define TARGET_MAXDSIZ      (512 * MiB)         /* max data size */
#define TARGET_DFLSSIZ      (4 * MiB)           /* initial stack size limit */
#define TARGET_MAXSSIZ      (64 * MiB)          /* max stack size */
#define TARGET_SGROWSIZ     (128 * KiB)         /* amount to grow stack */

#define TARGET_RESERVED_VA  0xf7000000

            /* KERNBASE - 512 MB */
#define TARGET_VM_MAXUSER_ADDRESS   (0xc0000000 - (512 * MiB))
#define TARGET_USRSTACK             TARGET_VM_MAXUSER_ADDRESS

static inline abi_ulong get_sp_from_cpustate(CPUARMState *state)
{
  return state->regs[13]; /* sp */
}

static inline void set_second_rval(CPUARMState *state, abi_ulong retval2)
{
  state->regs[1] = retval2;
}
```

```
#endif /* TARGET_ARCH_VMPARAM_H */
/*
*  x86_64 thread support
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*/

#ifndef TARGET_ARCH_THREAD_H
#define TARGET_ARCH_THREAD_H

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
   abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
   /* XXX */
}

static
 inline void target_thread_init(struct target_pt_regs *regs,
   struct image_info *infop)
{
   regs->rax = 0;
   regs->rsp = infop->start_stack;
   regs->rip = infop->entry;
   regs->rdi = infop->start_stack;
}

#endif /* TARGET_ARCH_THREAD_H */
/*
*  i386 ELF definitions
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#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x01001000
#define elf_check_arch(x) (((x) == EM_386) || ((x) == EM_486))

#define ELF_HWCAP       0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define ELF_CLASS       ELFCLASS32
#define
 ELF_DATA        ELFDATA2LSB
#define ELF_ARCH        EM_386

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096

#endif /* TARGET_ARCH_ELF_H */
/*
*  miscellaneous FreeBSD system call shims
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*/
```

```
#ifndef OS_MISC_H
#define OS_MISC_H

#include <sys/cpuset.h>
#include <sys/random.h>
#include <sched.h>

/*
* shm_open2 isn't exported, but the __sys_ alias is. We can use either for the
* static version, but to dynamically link we have to use the
 sys version.
*/
int __sys_shm_open2(const char *path, int flags, mode_t mode, int shmflags,
   const char *);

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300048
/* shm_open2(2) */
static inline abi_long do_freebsd_shm_open2(abi_ulong pathptr, abi_ulong flags,
   abi_long mode, abi_ulong shmflags, abi_ulong nameptr)
{
   int ret;
   void *uname, *upath;

   if (pathptr == (uintptr_t)SHM_ANON) {
       upath = SHM_ANON;
   } else {
       upath = lock_user_string(pathptr);
       if (upath == NULL) {
           return -TARGET_EFAULT;
       }
   }

   uname = NULL;
   if (nameptr != 0) {
       uname = lock_user_string(nameptr);
       if (uname == NULL) {
           unlock_user(upath, pathptr, 0);
           return -TARGET_EFAULT;
       }
   }
   ret = get_errno(__sys_shm_open2(upath,
               target_to_host_bitmask(flags, fcntl_flags_tbl), mode,
               target_to_host_bitmask(shmflags, shmflag_flags_tbl), uname));

   if (upath != SHM_ANON)
  {
       unlock_user(upath, pathptr, 0);
```

```
  }
  if (uname != NULL) {
      unlock_user(uname, nameptr, 0);
  }
  return ret;
}
#endif /* __FreeBSD_version >= 1300048 */

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300049
/* shm_rename(2) */
static inline abi_long do_freebsd_shm_rename(abi_ulong fromptr, abi_ulong toptr,
      abi_ulong flags)
{
  int ret;
  void *ufrom, *uto;

  ufrom = lock_user_string(fromptr);
  if (ufrom == NULL) {
      return -TARGET_EFAULT;
  }
  uto = lock_user_string(toptr);
  if (uto == NULL) {
      unlock_user(ufrom, fromptr, 0);
      return -TARGET_EFAULT;
  }
  ret = get_errno(shm_rename(ufrom, uto, flags));
  unlock_user(ufrom, fromptr, 0);
  unlock_user(uto, toptr, 0);

  return ret;
}
#endif /* __FreeBSD_version >= 1300049 */

#endif /* OS_MISC_H */
/*
*  FreeBSD amd64 register structures
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*/

#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/amd64/include/reg.h */
typedef struct target_reg {
   uint64_t        r_r15;
   uint64_t        r_r14;
   uint64_t        r_r13;
   uint64_t        r_r12;
   uint64_t
       r_r11;
   uint64_t        r_r10;
   uint64_t        r_r9;
   uint64_t        r_r8;
   uint64_t        r_rdi;
   uint64_t        r_rsi;
   uint64_t        r_rbp;
   uint64_t        r_rbx;
   uint64_t        r_rdx;
   uint64_t        r_rcx;
   uint64_t        r_rax;
   uint32_t        r_trapno;
   uint16_t        r_fs;
   uint16_t        r_gs;
   uint32_t        r_err;
   uint16_t        r_es;
   uint16_t        r_ds;
   uint64_t        r_rip;
   uint64_t        r_cs;
   uint64_t        r_rflags;
   uint64_t        r_rsp;
   uint64_t        r_ss;
} target_reg_t;

typedef struct target_fpreg {
   uint64_t        fpr_env[4];
   uint8_t         fpr_acc[8][16];
   uint8_t         fpr_xacc[16][16];
   uint64_t        fpr_spare[12];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
```

```
{

  regs->r_r15 = env->regs[15];
  regs->r_r14 = env->regs[14];
  regs->r_r13 = env->regs[13];
  regs->r_r12 = env->regs[12];
   regs->r_r11 = env->regs[11];
  regs->r_r10 = env->regs[10];
  regs->r_r9 = env->regs[9];
  regs->r_r8 = env->regs[8];
  regs->r_rdi = env->regs[R_EDI];
  regs->r_rsi = env->regs[R_ESI];
  regs->r_rbp = env->regs[R_EBP];
  regs->r_rbx = env->regs[R_EBX];
  regs->r_rdx = env->regs[R_EDX];
  regs->r_rcx = env->regs[R_ECX];
  regs->r_rax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
  regs->r_fs = env->segs[R_FS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_es = env->segs[R_ES].selector & 0xffff;
  regs->r_ds = env->segs[R_DS].selector & 0xffff;
  regs->r_rip = env->eip;
  regs->r_cs = env->segs[R_CS].selector & 0xffff;
  regs->r_rflags = env->eflags;
  regs->r_rsp = env->regs[R_ESP];
  regs->r_ss = env->segs[R_SS].selector & 0xffff;
}

#endif /* TARGET_ARCH_REG_H */
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*  FreeBSD dependent strace print functions
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```

```
*/

#include "target_arch_sysarch.h"    /* architecture dependent functions */


static inline void do_os_print_sysarch(const struct syscallname *name,
      abi_long arg1, abi_long arg2, abi_long arg3, abi_long arg4,
      abi_long arg5, abi_long arg6)
{
   /* This is arch dependent */
  do_freebsd_arch_print_sysarch(name, arg1, arg2, arg3, arg4, arg5, arg6);
}
/*
* host-signal.h: signal info dependent on the host architecture
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*/

#ifndef ARM_HOST_SIGNAL_H
#define ARM_HOST_SIGNAL_H

#include <sys/ucontext.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
  return uc->uc_mcontext.__gregs[_REG_PC];
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.__gregs[_REG_PC] = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
{
  /*
   * In the FSR, bit 11 is WnR. FreeBSD returns this as part of the
   * si_info.si_trapno.
   */
  uint32_t fsr = info->si_trapno;

  return extract32(fsr, 11, 1);
}

#endif
```

```
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*  FreeBSD host dependent code and definitions
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*/

#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_freebsd

#endif /* HOST_OS_H */
/*
*  FreeBSD thread dependent code and definitions
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*/

#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"
```

#endif /* TARGET_OS_THREAD_H */
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Ty Coon, President of Vice

That's all there is to it!
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* Intel i386 sigcode for bsd-user
*
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*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
       unsigned sys_sigreturn)
{

   return 0;
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/* XXX OpenBSD dependent strace print functions */
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/*
* host-signal.h: signal info dependent on the host architecture
*
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*/

#ifndef X86_64_HOST_SIGNAL_H
```

```
#define X86_64_HOST_SIGNAL_H

#include <sys/param.h>
#include <sys/ucontext.h>
#include <machine/trap.h>
#include <vm/pmap.h>
#include <machine/pmap.h>

static inline uintptr_t host_signal_pc(ucontext_t *uc)
{
  return uc->uc_mcontext.mc_rip;
}

static inline void host_signal_set_pc(ucontext_t *uc, uintptr_t pc)
{
  uc->uc_mcontext.mc_rip = pc;
}

static inline bool host_signal_write(siginfo_t *info, ucontext_t *uc)
{
  /*
   * Look in sys/amd64/amd64/trap.c. NOTE: mc_err == tr_err due to type
   * punning between a trapframe and mcontext on FreeBSD/amd64.
   */
  return uc->uc_mcontext.mc_trapno == T_PAGEFLT &&
      uc->uc_mcontext.mc_err & PGEX_W;
}

#endif
```

License for Berkeley TestFloat Release 3e

John R. Hauser
2018 January 20

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#include "trace/trace-bsd_user.h"
/*
* memory management system call shims and definitions
*
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*/

#ifndef BSD_USER_BSD_MEM_H
#define BSD_USER_BSD_MEM_H

#include <sys/types.h>
#include <sys/ipc.h>
#include <sys/mman.h>
#include <sys/shm.h>
#include <fcntl.h>

#include "qemu-bsd.h"

extern struct bsd_shm_regions bsd_shm_regions[];
extern abi_ulong target_brk;
extern abi_ulong initial_target_brk;

/* mmap(2) */
static inline abi_long do_bsd_mmap(void *cpu_env, abi_long arg1, abi_long arg2,
   abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6, abi_long arg7,
   abi_long arg8)
{
   if (regpairs_aligned(cpu_env) != 0) {
       arg6 = arg7;
       arg7 = arg8;
   }
   return get_errno(target_mmap(arg1, arg2,
 arg3,
                                target_to_host_bitmask(arg4, mmap_flags_tbl),
```

```
                        arg5, target_arg64(arg6, arg7)));
}

/* munmap(2) */
static inline abi_long do_bsd_munmap(abi_long arg1, abi_long arg2)
{
  return get_errno(target_munmap(arg1, arg2));
}

/* mprotect(2) */
static inline abi_long do_bsd_mprotect(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  return get_errno(target_mprotect(arg1, arg2, arg3));
}

/* msync(2) */
static inline abi_long do_bsd_msync(abi_long addr, abi_long len, abi_long flags)
{
  if (!guest_range_valid_untagged(addr, len)) {
      /* It seems odd, but POSIX wants this to be ENOMEM */
      return -TARGET_ENOMEM;
  }

  return get_errno(msync(g2h_untagged(addr), len, flags));
}

/* mlock(2) */
static inline abi_long do_bsd_mlock(abi_long arg1, abi_long arg2)
{
  if (!guest_range_valid_untagged(arg1, arg2)) {
      return -TARGET_EINVAL;
  }
  return get_errno(mlock(g2h_untagged(arg1), arg2));
}

/*
 munlock(2) */
static inline abi_long do_bsd_munlock(abi_long arg1, abi_long arg2)
{
  if (!guest_range_valid_untagged(arg1, arg2)) {
      return -TARGET_EINVAL;
  }
  return get_errno(munlock(g2h_untagged(arg1), arg2));
}

/* mlockall(2) */
static inline abi_long do_bsd_mlockall(abi_long arg1)
```

```
{
   return get_errno(mlockall(arg1));
}

/* munlockall(2) */
static inline abi_long do_bsd_munlockall(void)
{
   return get_errno(munlockall());
}

/* madvise(2) */
static inline abi_long do_bsd_madvise(abi_long arg1, abi_long arg2,
       abi_long arg3)
{
   abi_ulong len;
   int ret = 0;
   abi_long start = arg1;
   abi_long len_in = arg2;
   abi_long advice = arg3;

   if (start & ~TARGET_PAGE_MASK) {
       return -TARGET_EINVAL;
   }
   if (len_in == 0) {
       return 0;
   }
   len = TARGET_PAGE_ALIGN(len_in);
   if (len == 0 || !guest_range_valid_untagged(start, len)) {
       return -TARGET_EINVAL;
   }

   /*
    * Most advice values are hints, so ignoring
 and returning success is ok.
    *
    * However, some advice values such as MADV_DONTNEED, are not hints and
    * need to be emulated.
    *
    * A straight passthrough for those may not be safe because qemu sometimes
    * turns private file-backed mappings into anonymous mappings.
    * If all guest pages have PAGE_PASSTHROUGH set, mappings have the
    * same semantics for the host as for the guest.
    *
    * MADV_DONTNEED is passed through, if possible.
    * If passthrough isn't possible, we nevertheless (wrongly!) return
    * success, which is broken but some userspace programs fail to work
    * otherwise. Completely implementing such emulation is quite complicated
    * though.
```

```
    */
   mmap_lock();
   switch (advice) {
   case MADV_DONTNEED:
       if (page_check_range(start, len, PAGE_PASSTHROUGH)) {
           ret = get_errno(madvise(g2h_untagged(start), len, advice));
           if (ret == 0) {
               page_reset_target_data(start,
 start + len - 1);
           }
       }
   }
   mmap_unlock();

   return ret;
}

/* minherit(2) */
static inline abi_long do_bsd_minherit(abi_long addr, abi_long len,
       abi_long inherit)
{
   return get_errno(minherit(g2h_untagged(addr), len, inherit));
}

/* mincore(2) */
static inline abi_long do_bsd_mincore(abi_ulong target_addr, abi_ulong len,
       abi_ulong target_vec)
{
   abi_long ret;
   void *p;
   abi_ulong vec_len = DIV_ROUND_UP(len, TARGET_PAGE_SIZE);

   if (!guest_range_valid_untagged(target_addr, len)
       || !page_check_range(target_addr, len, PAGE_VALID)) {
       return -TARGET_EFAULT;
   }

   p = lock_user(VERIFY_WRITE, target_vec, vec_len, 0);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
   ret = get_errno(mincore(g2h_untagged(target_addr), len, p));
   unlock_user(p, target_vec, vec_len);

   return ret;
}

/* do_brk() must return target values and target errnos. */
```

```
static inline abi_long do_obreak(abi_ulong brk_val)
{
    abi_long mapped_addr;
   abi_ulong new_brk;
   abi_ulong old_brk;

   /* brk pointers are always untagged */

   /* do not allow to shrink below initial brk value */
   if (brk_val < initial_target_brk) {
       return target_brk;
   }

   new_brk = TARGET_PAGE_ALIGN(brk_val);
   old_brk = TARGET_PAGE_ALIGN(target_brk);

   /* new and old target_brk might be on the same page */
   if (new_brk == old_brk) {
       target_brk = brk_val;
       return target_brk;
   }

   /* Release heap if necessary */
   if (new_brk < old_brk) {
       target_munmap(new_brk, old_brk - new_brk);

       target_brk = brk_val;
       return target_brk;
   }

   mapped_addr = target_mmap(old_brk, new_brk - old_brk,
                             PROT_READ | PROT_WRITE,
                             MAP_FIXED | MAP_EXCL | MAP_ANON | MAP_PRIVATE,
                             -1, 0);

   if (mapped_addr == old_brk) {
       target_brk = brk_val;
       return target_brk;
   }

   /*
 For everything else, return the previous break. */
   return target_brk;
}

/* shm_open(2) */
static inline abi_long do_bsd_shm_open(abi_ulong arg1, abi_long arg2,
       abi_long arg3)
```

```
{
   int ret;
   void *p;

   if (arg1 == (uintptr_t)SHM_ANON) {
       p = SHM_ANON;
   } else {
       p = lock_user_string(arg1);
       if (p == NULL) {
           return -TARGET_EFAULT;
       }
   }
   ret = get_errno(shm_open(p, target_to_host_bitmask(arg2, fcntl_flags_tbl),
                            arg3));

   if (p != SHM_ANON) {
       unlock_user(p, arg1, 0);
   }

   return ret;
}

/* shm_unlink(2) */
static inline abi_long do_bsd_shm_unlink(abi_ulong arg1)
{
   int ret;
   void *p;

   p = lock_user_string(arg1);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
   ret = get_errno(shm_unlink(p)); /* XXX path(p)? */
   unlock_user(p, arg1, 0);

   return ret;
}

/* shmget(2) */
static inline abi_long do_bsd_shmget(abi_long arg1, abi_ulong arg2,
       abi_long
 arg3)
{
   return get_errno(shmget(arg1, arg2, arg3));
}

/* shmctl(2) */
static inline abi_long do_bsd_shmctl(abi_long shmid, abi_long cmd,
```

```
        abi_ulong buff)
{
    struct shmid_ds dsarg;
    abi_long ret = -TARGET_EINVAL;

    cmd &= 0xff;

    switch (cmd) {
    case IPC_STAT:
        if (target_to_host_shmid_ds(&dsarg, buff)) {
            return -TARGET_EFAULT;
        }
        ret = get_errno(shmctl(shmid, cmd, &dsarg));
        if (host_to_target_shmid_ds(buff, &dsarg)) {
            return -TARGET_EFAULT;
        }
        break;

    case IPC_SET:
        if (target_to_host_shmid_ds(&dsarg, buff)) {
            return -TARGET_EFAULT;
        }
        ret = get_errno(shmctl(shmid, cmd, &dsarg));
        break;

    case IPC_RMID:
        ret = get_errno(shmctl(shmid, cmd, NULL));
        break;

    default:
        ret = -TARGET_EINVAL;
        break;
    }

    return ret;
}

/* shmat(2) */
static inline abi_long do_bsd_shmat(int shmid, abi_ulong shmaddr, int shmflg)
{
     abi_ulong raddr;
    abi_long ret;
    struct shmid_ds shm_info;

    /* Find out the length of the shared memory segment. */
    ret = get_errno(shmctl(shmid, IPC_STAT, &shm_info));
    if (is_error(ret)) {
        /* Can't get the length */
```

```
        return ret;
    }

    if (!guest_range_valid_untagged(shmaddr, shm_info.shm_segsz)) {
        return -TARGET_EINVAL;
    }

    WITH_MMAP_LOCK_GUARD() {
        void *host_raddr;

        if (shmaddr) {
            host_raddr = shmat(shmid, (void *)g2h_untagged(shmaddr), shmflg);
        } else {
            abi_ulong mmap_start;

            mmap_start = mmap_find_vma(0, shm_info.shm_segsz);

            if (mmap_start == -1) {
                return -TARGET_ENOMEM;
            }
            host_raddr = shmat(shmid, g2h_untagged(mmap_start),
                               shmflg | SHM_REMAP);
        }

        if (host_raddr == (void *)-1) {
            return get_errno(-1);
        }
        raddr = h2g(host_raddr);


      page_set_flags(raddr, raddr + shm_info.shm_segsz - 1,
                     PAGE_VALID | PAGE_RESET | PAGE_READ |
                     (shmflg & SHM_RDONLY ? 0 : PAGE_WRITE));

        for (int i = 0; i < N_BSD_SHM_REGIONS; i++) {
            if (bsd_shm_regions[i].start == 0) {
                bsd_shm_regions[i].start = raddr;
                bsd_shm_regions[i].size = shm_info.shm_segsz;
                break;
            }
        }
    }

    return raddr;
}

/* shmdt(2) */
static inline abi_long do_bsd_shmdt(abi_ulong shmaddr)
```

```
{
  abi_long ret;

  WITH_MMAP_LOCK_GUARD() {
    int i;

    for (i = 0; i < N_BSD_SHM_REGIONS; ++i) {
      if (bsd_shm_regions[i].start == shmaddr) {
        break;
      }
    }

    if (i == N_BSD_SHM_REGIONS) {
      return -TARGET_EINVAL;
    }

    ret = get_errno(shmdt(g2h_untagged(shmaddr)));
    if (ret == 0) {
      abi_ulong size = bsd_shm_regions[i].size;

      bsd_shm_regions[i].start
 = 0;
      page_set_flags(shmaddr, shmaddr + size - 1, 0);
      mmap_reserve(shmaddr, size);
    }
  }

  return ret;
}

static inline abi_long do_bsd_vadvise(void)
{
  /* See sys_ovadvise() in vm_unix.c */
  return -TARGET_EINVAL;
}

static inline abi_long do_bsd_sbrk(void)
{
  /* see sys_sbrk() in vm_mmap.c */
  return -TARGET_EOPNOTSUPP;
}

static inline abi_long do_bsd_sstk(void)
{
  /* see sys_sstk() in vm_mmap.c */
  return -TARGET_EOPNOTSUPP;
}
```

```
#endif /* BSD_USER_BSD_MEM_H */
/*
*  i386 dependent signal definitions
*
*
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*  it under the terms of the GNU General Public License as published by
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)             /* min sig stack size */
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

typedef struct target_mcontext {
  abi_ulong   mc_onstack;     /* XXX - sigcontext compat. */
  abi_ulong   mc_gs;          /* machine state (struct trapframe) */
  abi_ulong   mc_fs;
  abi_ulong   mc_es;
  abi_ulong   mc_ds;
  abi_ulong   mc_edi;
  abi_ulong   mc_esi;
  abi_ulong   mc_ebp;
  abi_ulong   mc_isp;
  abi_ulong   mc_ebx;
  abi_ulong   mc_edx;
  abi_ulong   mc_ecx;
  abi_ulong   mc_eax;
  abi_ulong   mc_trapno;
  abi_ulong   mc_err;
  abi_ulong   mc_eip;
```

```
   abi_ulong   mc_cs;
   abi_ulong   mc_eflags;
   abi_ulong   mc_esp;
   abi_ulong   mc_ss;

   int32_t     mc_len;                 /* sizeof(mcontext_t) */
#define _MC_FPFMT_NODEV         0x10000 /* device not present or configured */
#define _MC_FPFMT_387           0x10001
#define _MC_FPFMT_XMM           0x10002
   int32_t     mc_fpformat;
#define _MC_FPOWNED_NONE        0x20000 /* FP state not used */
#define _MC_FPOWNED_FPU
        0x20001 /* FP state came from FPU */
#define _MC_FPOWNED_PCB         0x20002 /* FP state came from PCB */
   int32_t     mc_ownedfp;
   abi_ulong mc_flags;
       /*
        * See <machine/npx.h> for the internals of mc_fpstate[].
        */
   int32_t     mc_fpstate[128] __aligned(16);

   abi_ulong mc_fsbase;
   abi_ulong mc_gsbase;

   abi_ulong mc_xfpustate;
   abi_ulong mc_xfpustate_len;

   int32_t     mc_spare2[4];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 640
#define TARGET_UCONTEXT_SIZE 704

#include "target_os_ucontext.h"

struct target_sigframe {
   abi_ulong   sf_signum;
   abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
   abi_ulong   sf_ucontext;   /* points to sf_uc */
   abi_ulong   sf_addr;       /* undocumented 4th arg */
   target_ucontext_t   sf_uc; /* = *sf_uncontext */
   target_siginfo_t    sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
   uint32_t    __spare__[2];
};

#endif /* TARGET_ARCH_SIGNAL_H */
```

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==========

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```
/*
* System call numbers.
*
* DO NOT EDIT-- this file is automatically @generated.
* $FreeBSD$
*/

#define TARGET_FREEBSD_NR_syscall       0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
                        /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink        10
                        /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir        13
#define TARGET_FREEBSD_NR_freebsd11_mknod       14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
                        /* 18 is freebsd4 getfsstat */
                        /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid        20
#define TARGET_FREEBSD_NR_mount 21
#define
 TARGET_FREEBSD_NR_unmount       22
#define TARGET_FREEBSD_NR_setuid        23
```

```
#define TARGET_FREEBSD_NR_getuid        24
#define TARGET_FREEBSD_NR_geteuid       25
#define TARGET_FREEBSD_NR_ptrace        26
#define TARGET_FREEBSD_NR_recvmsg       27
#define TARGET_FREEBSD_NR_sendmsg       28
#define TARGET_FREEBSD_NR_recvfrom      29
#define TARGET_FREEBSD_NR_accept        30
#define TARGET_FREEBSD_NR_getpeername   31
#define TARGET_FREEBSD_NR_getsockname   32
#define TARGET_FREEBSD_NR_access        33
#define TARGET_FREEBSD_NR_chflags       34
#define TARGET_FREEBSD_NR_fchflags      35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
                        /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid       39
                        /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup   41
#define TARGET_FREEBSD_NR_freebsd10_pipe        42
#define TARGET_FREEBSD_NR_getegid       43
#define TARGET_FREEBSD_NR_profil        44
#define
 TARGET_FREEBSD_NR_ktrace        45
                        /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid        47
                        /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin      49
#define TARGET_FREEBSD_NR_setlogin      50
#define TARGET_FREEBSD_NR_acct  51
                        /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack   53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot        55
#define TARGET_FREEBSD_NR_revoke        56
#define TARGET_FREEBSD_NR_symlink       57
#define TARGET_FREEBSD_NR_readlink      58
#define TARGET_FREEBSD_NR_execve        59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot        61
                        /* 62 is old fstat */
                        /* 63 is old getkerninfo */
                        /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66

                      /* 67 is obsolete vread */
                        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
```

```
#define TARGET_FREEBSD_NR_sstk  70
                        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_freebsd11_vadvise     72
#define TARGET_FREEBSD_NR_munmap        73
#define TARGET_FREEBSD_NR_mprotect      74
#define TARGET_FREEBSD_NR_madvise       75
                        /* 76 is obsolete vhangup */
                        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore       78
#define TARGET_FREEBSD_NR_getgroups     79
#define TARGET_FREEBSD_NR_setgroups     80
#define TARGET_FREEBSD_NR_getpgrp       81
#define TARGET_FREEBSD_NR_setpgid       82
#define TARGET_FREEBSD_NR_setitimer     83
                        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon        85
#define TARGET_FREEBSD_NR_getitimer     86
                        /* 87 is old gethostname */

                    /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select        93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket        97
#define TARGET_FREEBSD_NR_connect       98
                        /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
                        /* 101 is old send */
                        /* 102 is old recv */
                        /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen        106
                        /* 107 is obsolete vtimes */
                        /* 108 is old sigvec */
                        /* 109 is old sigblock */
                        /* 110 is old sigsetmask */
                         /* 111 is old sigsuspend */
                        /* 112 is old sigstack */
                        /* 113 is old recvmsg */
                        /* 114 is old sendmsg */
                        /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage     117
#define TARGET_FREEBSD_NR_getsockopt    118
```

```
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev        121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown        123
#define TARGET_FREEBSD_NR_fchmod        124
                        /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid      126
#define TARGET_FREEBSD_NR_setregid      127
#define TARGET_FREEBSD_NR_rename        128
                        /* 129 is old truncate */
                        /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo
        132
#define TARGET_FREEBSD_NR_sendto        133
#define TARGET_FREEBSD_NR_shutdown      134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes        138
                        /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime       140
                        /* 141 is old getpeername */
                        /* 142 is old gethostid */
                        /* 143 is old sethostid */
                        /* 144 is old getrlimit */
                        /* 145 is old setrlimit */
                        /* 146 is old killpg */
#define TARGET_FREEBSD_NR_setsid        147
#define TARGET_FREEBSD_NR_quotactl      148
                        /* 149 is old quota */
                        /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc
        155
                        /* 156 is old getdirentries */
                        /* 157 is freebsd4 statfs */
                        /* 158 is freebsd4 fstatfs */
#define TARGET_FREEBSD_NR_lgetfh        160
#define TARGET_FREEBSD_NR_getfh 161
                        /* 162 is freebsd4 getdomainname */
                        /* 163 is freebsd4 setdomainname */
                        /* 164 is freebsd4 uname */
#define TARGET_FREEBSD_NR_sysarch       165
#define TARGET_FREEBSD_NR_rtprio        166
#define TARGET_FREEBSD_NR_semsys        169
#define TARGET_FREEBSD_NR_msgsys        170
#define TARGET_FREEBSD_NR_shmsys        171
```

```
                        /* 173 is freebsd6 pread */
                        /* 174 is freebsd6 pwrite */
#define TARGET_FREEBSD_NR_setfib        175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid        181
#define TARGET_FREEBSD_NR_setegid
   182
#define TARGET_FREEBSD_NR_seteuid       183
                        /* 184 is obsolete lfs_bmapv */
                        /* 185 is obsolete lfs_markv */
                        /* 186 is obsolete lfs_segclean */
                        /* 187 is obsolete lfs_segwait */
#define TARGET_FREEBSD_NR_freebsd11_stat        188
#define TARGET_FREEBSD_NR_freebsd11_fstat       189
#define TARGET_FREEBSD_NR_freebsd11_lstat       190
#define TARGET_FREEBSD_NR_pathconf      191
#define TARGET_FREEBSD_NR_fpathconf     192
#define TARGET_FREEBSD_NR_getrlimit     194
#define TARGET_FREEBSD_NR_setrlimit     195
#define TARGET_FREEBSD_NR_freebsd11_getdirentries       196
                        /* 197 is freebsd6 mmap */
#define TARGET_FREEBSD_NR___syscall     198
                        /* 199 is freebsd6 lseek */
                        /* 200 is freebsd6 truncate */
                        /* 201 is freebsd6 ftruncate */
#define
 TARGET_FREEBSD_NR___sysctl      202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock       204
#define TARGET_FREEBSD_NR_undelete      205
#define TARGET_FREEBSD_NR_futimes       206
#define TARGET_FREEBSD_NR_getpgid       207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl     220
#define TARGET_FREEBSD_NR_semget        221
#define TARGET_FREEBSD_NR_semop 222
                        /* 223 is obsolete semconfig */
#define TARGET_FREEBSD_NR_freebsd7_msgctl       224
#define TARGET_FREEBSD_NR_msgget        225
#define TARGET_FREEBSD_NR_msgsnd        226
#define TARGET_FREEBSD_NR_msgrcv        227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl       229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget        231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres  234
```

```
#define TARGET_FREEBSD_NR_ktimer_create
 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime        237
#define TARGET_FREEBSD_NR_ktimer_gettime        238
#define TARGET_FREEBSD_NR_ktimer_getoverrun     239
#define TARGET_FREEBSD_NR_nanosleep     240
#define TARGET_FREEBSD_NR_ffclock_getcounter    241
#define TARGET_FREEBSD_NR_ffclock_setestimate   242
#define TARGET_FREEBSD_NR_ffclock_getestimate   243
#define TARGET_FREEBSD_NR_clock_nanosleep       244
#define TARGET_FREEBSD_NR_clock_getcpuclockid2  247
#define TARGET_FREEBSD_NR_ntp_gettime   248
#define TARGET_FREEBSD_NR_minherit      250
#define TARGET_FREEBSD_NR_rfork 251
                        /* 252 is obsolete openbsd_poll */
#define TARGET_FREEBSD_NR_issetugid     253
#define TARGET_FREEBSD_NR_lchown        254
#define TARGET_FREEBSD_NR_aio_read      255
#define TARGET_FREEBSD_NR_aio_write     256
#define TARGET_FREEBSD_NR_lio_listio    257
#define TARGET_FREEBSD_NR_freebsd11_getdents    272
#define TARGET_FREEBSD_NR_lchmod
       274
                        /* 275 is obsolete netbsd_lchown */
#define TARGET_FREEBSD_NR_lutimes       276
                        /* 277 is obsolete netbsd_msync */
#define TARGET_FREEBSD_NR_freebsd11_nstat       278
#define TARGET_FREEBSD_NR_freebsd11_nfstat      279
#define TARGET_FREEBSD_NR_freebsd11_nlstat      280
#define TARGET_FREEBSD_NR_preadv        289
#define TARGET_FREEBSD_NR_pwritev       290
                        /* 297 is freebsd4 fhstatfs */
#define TARGET_FREEBSD_NR_fhopen        298
#define TARGET_FREEBSD_NR_freebsd11_fhstat      299
#define TARGET_FREEBSD_NR_modnext       300
#define TARGET_FREEBSD_NR_modstat       301
#define TARGET_FREEBSD_NR_modfnext      302
#define TARGET_FREEBSD_NR_modfind       303
#define TARGET_FREEBSD_NR_kldload       304
#define TARGET_FREEBSD_NR_kldunload     305
#define TARGET_FREEBSD_NR_kldfind       306
#define TARGET_FREEBSD_NR_kldnext       307
#define TARGET_FREEBSD_NR_kldstat       308
#define
 TARGET_FREEBSD_NR_kldfirstmod   309
#define TARGET_FREEBSD_NR_getsid        310
#define TARGET_FREEBSD_NR_setresuid     311
```

```
#define TARGET_FREEBSD_NR_setresgid     312
                        /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return    314
#define TARGET_FREEBSD_NR_aio_suspend   315
#define TARGET_FREEBSD_NR_aio_cancel    316
#define TARGET_FREEBSD_NR_aio_error     317
                        /* 318 is freebsd6 aio_read */
                        /* 319 is freebsd6 aio_write */
                        /* 320 is freebsd6 lio_listio */
#define TARGET_FREEBSD_NR_yield 321
                        /* 322 is obsolete thr_sleep */
                        /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall      324
#define TARGET_FREEBSD_NR_munlockall    325
#define TARGET_FREEBSD_NR___getcwd      326
#define TARGET_FREEBSD_NR_sched_setparam        327
#define TARGET_FREEBSD_NR_sched_getparam
    328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield   331
#define TARGET_FREEBSD_NR_sched_get_priority_max        332
#define TARGET_FREEBSD_NR_sched_get_priority_min        333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace        335
                        /* 336 is freebsd4 sendfile */
#define TARGET_FREEBSD_NR_kldsym        337
#define TARGET_FREEBSD_NR_jail  338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask   340
#define TARGET_FREEBSD_NR_sigsuspend    341
                        /* 342 is freebsd4 sigaction */
#define TARGET_FREEBSD_NR_sigpending    343
                        /* 344 is freebsd4 sigreturn */
#define TARGET_FREEBSD_NR_sigtimedwait  345
#define TARGET_FREEBSD_NR_sigwaitinfo   346
#define TARGET_FREEBSD_NR___acl_get_file        347
#define TARGET_FREEBSD_NR___acl_set_file
    348
#define TARGET_FREEBSD_NR___acl_get_fd  349
#define TARGET_FREEBSD_NR___acl_set_fd  350
#define TARGET_FREEBSD_NR___acl_delete_file     351
#define TARGET_FREEBSD_NR___acl_delete_fd       352
#define TARGET_FREEBSD_NR___acl_aclcheck_file   353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd     354
#define TARGET_FREEBSD_NR_extattrctl    355
#define TARGET_FREEBSD_NR_extattr_set_file      356
#define TARGET_FREEBSD_NR_extattr_get_file      357
```

```
#define TARGET_FREEBSD_NR_extattr_delete_file   358
#define TARGET_FREEBSD_NR_aio_waitcomplete      359
#define TARGET_FREEBSD_NR_getresuid     360
#define TARGET_FREEBSD_NR_getresgid     361
#define TARGET_FREEBSD_NR_kqueue        362
#define TARGET_FREEBSD_NR_freebsd11_kevent      363
                        /* 364 is obsolete __cap_get_proc */
                        /* 365 is obsolete __cap_set_proc */
                        /* 366 is obsolete __cap_get_fd */
                        /* 367 is obsolete
 __cap_get_file */
                        /* 368 is obsolete __cap_set_fd */
                        /* 369 is obsolete __cap_set_file */
#define TARGET_FREEBSD_NR_extattr_set_fd        371
#define TARGET_FREEBSD_NR_extattr_get_fd        372
#define TARGET_FREEBSD_NR_extattr_delete_fd     373
#define TARGET_FREEBSD_NR___setugid     374
                        /* 375 is obsolete nfsclnt */
#define TARGET_FREEBSD_NR_eaccess       376
#define TARGET_FREEBSD_NR_afs3_syscall  377
#define TARGET_FREEBSD_NR_nmount        378
                        /* 379 is obsolete kse_exit */
                        /* 380 is obsolete kse_wakeup */
                        /* 381 is obsolete kse_create */
                        /* 382 is obsolete kse_thr_interrupt */
                        /* 383 is obsolete kse_release */
#define TARGET_FREEBSD_NR___mac_get_proc        384
#define TARGET_FREEBSD_NR___mac_set_proc        385
#define TARGET_FREEBSD_NR___mac_get_fd
  386
#define TARGET_FREEBSD_NR___mac_get_file        387
#define TARGET_FREEBSD_NR___mac_set_fd  388
#define TARGET_FREEBSD_NR___mac_set_file        389
#define TARGET_FREEBSD_NR_kenv  390
#define TARGET_FREEBSD_NR_lchflags      391
#define TARGET_FREEBSD_NR_uuidgen       392
#define TARGET_FREEBSD_NR_sendfile      393
#define TARGET_FREEBSD_NR_mac_syscall   394
#define TARGET_FREEBSD_NR_freebsd11_getfsstat   395
#define TARGET_FREEBSD_NR_freebsd11_statfs      396
#define TARGET_FREEBSD_NR_freebsd11_fstatfs     397
#define TARGET_FREEBSD_NR_freebsd11_fhstatfs    398
#define TARGET_FREEBSD_NR_ksem_close    400
#define TARGET_FREEBSD_NR_ksem_post     401
#define TARGET_FREEBSD_NR_ksem_wait     402
#define TARGET_FREEBSD_NR_ksem_trywait  403
#define TARGET_FREEBSD_NR_ksem_init     404
#define TARGET_FREEBSD_NR_ksem_open     405
```

```
#define TARGET_FREEBSD_NR_ksem_unlink   406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define
 TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link        410
#define TARGET_FREEBSD_NR___mac_set_link        411
#define TARGET_FREEBSD_NR_extattr_set_link      412
#define TARGET_FREEBSD_NR_extattr_get_link      413
#define TARGET_FREEBSD_NR_extattr_delete_link   414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction     416
#define TARGET_FREEBSD_NR_sigreturn     417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff       424
#define TARGET_FREEBSD_NR___acl_get_link        425
#define TARGET_FREEBSD_NR___acl_set_link        426
#define TARGET_FREEBSD_NR___acl_delete_link     427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait       429
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit      431
#define TARGET_FREEBSD_NR_thr_self      432
#define TARGET_FREEBSD_NR_thr_kill
    433
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd       437
#define TARGET_FREEBSD_NR_extattr_list_file     438
#define TARGET_FREEBSD_NR_extattr_list_link     439
                        /* 440 is obsolete kse_switchin */
#define TARGET_FREEBSD_NR_ksem_timedwait        441
#define TARGET_FREEBSD_NR_thr_suspend   442
#define TARGET_FREEBSD_NR_thr_wake      443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon       446
#define TARGET_FREEBSD_NR_getauid       447
#define TARGET_FREEBSD_NR_setauid       448
#define TARGET_FREEBSD_NR_getaudit      449
#define TARGET_FREEBSD_NR_setaudit      450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl      453
#define TARGET_FREEBSD_NR__umtx_op      454
#define TARGET_FREEBSD_NR_thr_new       455
#define TARGET_FREEBSD_NR_sigqueue
```

```
 456
#define TARGET_FREEBSD_NR_kmq_open      457
#define TARGET_FREEBSD_NR_kmq_setattr   458
#define TARGET_FREEBSD_NR_kmq_timedreceive      459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify    461
#define TARGET_FREEBSD_NR_kmq_unlink    462
#define TARGET_FREEBSD_NR_abort2        463
#define TARGET_FREEBSD_NR_thr_set_name  464
#define TARGET_FREEBSD_NR_aio_fsync     465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff  471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg  472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov      473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg  474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite        476
#define TARGET_FREEBSD_NR_mmap  477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate      479
#define TARGET_FREEBSD_NR_ftruncate     480
#define TARGET_FREEBSD_NR_thr_kill2     481
#define TARGET_FREEBSD_NR_freebsd12_shm_open    482
#define
 TARGET_FREEBSD_NR_shm_unlink    483
#define TARGET_FREEBSD_NR_cpuset        484
#define TARGET_FREEBSD_NR_cpuset_setid  485
#define TARGET_FREEBSD_NR_cpuset_getid  486
#define TARGET_FREEBSD_NR_cpuset_getaffinity    487
#define TARGET_FREEBSD_NR_cpuset_setaffinity    488
#define TARGET_FREEBSD_NR_faccessat     489
#define TARGET_FREEBSD_NR_fchmodat      490
#define TARGET_FREEBSD_NR_fchownat      491
#define TARGET_FREEBSD_NR_fexecve       492
#define TARGET_FREEBSD_NR_freebsd11_fstatat     493
#define TARGET_FREEBSD_NR_futimesat     494
#define TARGET_FREEBSD_NR_linkat        495
#define TARGET_FREEBSD_NR_mkdirat       496
#define TARGET_FREEBSD_NR_mkfifoat      497
#define TARGET_FREEBSD_NR_freebsd11_mknodat     498
#define TARGET_FREEBSD_NR_openat        499
#define TARGET_FREEBSD_NR_readlinkat    500
#define TARGET_FREEBSD_NR_renameat      501
#define TARGET_FREEBSD_NR_symlinkat     502
#define TARGET_FREEBSD_NR_unlinkat      503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define
```

```
 TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get      506
#define TARGET_FREEBSD_NR_jail_set      507
#define TARGET_FREEBSD_NR_jail_remove   508
#define TARGET_FREEBSD_NR_freebsd12_closefrom   509
#define TARGET_FREEBSD_NR___semctl      510
#define TARGET_FREEBSD_NR_msgctl        511
#define TARGET_FREEBSD_NR_shmctl        512
#define TARGET_FREEBSD_NR_lpathconf     513
                        /* 514 is obsolete cap_new */
#define TARGET_FREEBSD_NR___cap_rights_get      515
#define TARGET_FREEBSD_NR_cap_enter     516
#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork        518
#define TARGET_FREEBSD_NR_pdkill        519
#define TARGET_FREEBSD_NR_pdgetpid      520
#define TARGET_FREEBSD_NR_pselect       522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct        525
#define TARGET_FREEBSD_NR_rctl_get_rules        526
#define TARGET_FREEBSD_NR_rctl_get_limits
      527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule      529
#define TARGET_FREEBSD_NR_posix_fallocate       530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_wait6 532
#define TARGET_FREEBSD_NR_cap_rights_limit      533
#define TARGET_FREEBSD_NR_cap_ioctls_limit      534
#define TARGET_FREEBSD_NR_cap_ioctls_get        535
#define TARGET_FREEBSD_NR_cap_fcntls_limit      536
#define TARGET_FREEBSD_NR_cap_fcntls_get        537
#define TARGET_FREEBSD_NR_bindat        538
#define TARGET_FREEBSD_NR_connectat     539
#define TARGET_FREEBSD_NR_chflagsat     540
#define TARGET_FREEBSD_NR_accept4       541
#define TARGET_FREEBSD_NR_pipe2 542
#define TARGET_FREEBSD_NR_aio_mlock     543
#define TARGET_FREEBSD_NR_procctl       544
#define TARGET_FREEBSD_NR_ppoll 545
#define TARGET_FREEBSD_NR_futimens      546
#define TARGET_FREEBSD_NR_utimensat     547
                        /* 548 is obsolete numa_getaffinity
 */
                        /* 549 is obsolete numa_setaffinity */
#define TARGET_FREEBSD_NR_fdatasync     550
#define TARGET_FREEBSD_NR_fstat 551
```

```
#define TARGET_FREEBSD_NR_fstatat       552
#define TARGET_FREEBSD_NR_fhstat        553
#define TARGET_FREEBSD_NR_getdirentries 554
#define TARGET_FREEBSD_NR_statfs        555
#define TARGET_FREEBSD_NR_fstatfs       556
#define TARGET_FREEBSD_NR_getfsstat     557
#define TARGET_FREEBSD_NR_fhstatfs      558
#define TARGET_FREEBSD_NR_mknodat       559
#define TARGET_FREEBSD_NR_kevent        560
#define TARGET_FREEBSD_NR_cpuset_getdomain      561
#define TARGET_FREEBSD_NR_cpuset_setdomain      562
#define TARGET_FREEBSD_NR_getrandom     563
#define TARGET_FREEBSD_NR_getfhat       564
#define TARGET_FREEBSD_NR_fhlink        565
#define TARGET_FREEBSD_NR_fhlinkat      566
#define TARGET_FREEBSD_NR_fhreadlink    567
#define TARGET_FREEBSD_NR_funlinkat     568
#define TARGET_FREEBSD_NR_copy_file_range       569
#define TARGET_FREEBSD_NR___sysctlbyname
        570
#define TARGET_FREEBSD_NR_shm_open2     571
#define TARGET_FREEBSD_NR_shm_rename    572
#define TARGET_FREEBSD_NR_sigfastblock  573
#define TARGET_FREEBSD_NR___realpathat  574
#define TARGET_FREEBSD_NR_close_range   575
#define TARGET_FREEBSD_NR_rpctls_syscall        576
#define TARGET_FREEBSD_NR_MAXSYSCALL    577
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==========

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0
to Version 1.1 to cover open source documentation associated
with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a
backwards compatible extension that adds support for document
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Proposals (RFCs):
https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

TianoCore Bugzilla:
https://bugzilla.tianocore.org/show_bug.cgi?id=629

* April 9, 2019

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Contributions.txt: TianoCore Contribution Agreement 1.1

==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
   use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message
explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
   must include the name of contribution agreement and version.
   For example: Contributed-under: TianoCore Contribution Agreement 1.1
   The "TianoCore Contribution Agreement" is included below in
   this document.
4. Submit your code to the TianoCore project using the process
   that the project documents on its web page. If the process is
   not documented, then submit the code on development email list
   for the project.

5. It is preferred that contributions are submitted using the same
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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the

contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution
agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.0
The "TianoCore Contribution Agreement" is included below in
this document.

4. Submit your code to the TianoCore project using the process
that the project documents on its web page. If the process is
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==========
= Change Description / Commit Message / Patch Email =
==========

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.0
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part
of the commit message can be added here.

Patch content inline or
attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [PATCH]. The remaining portion of the commit message
  is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "CodeModule" is a short idenfier for the affected code. For
  example MdePkg, or MdeModulePkg UsbBusDxe.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
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SoftFloat Release 3e

John R. Hauser
2018 January 20

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*/
/*
* Intel general target stuff that's common to all i386 details
*
```

```
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*
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*/

#ifndef TARGET_H
#define TARGET_H

/*
* i386 doesn't 'lump' the registers for 64-bit args.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
  return false;
}

#endif /* TARGET_H */
#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H

#define TARGET_NSIG     32  /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
  abi_long    ss_sp;
  abi_ulong   ss_size;
  abi_long    ss_flags;
} target_stack_t;

typedef struct {
  uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
  abi_ulong   _sa_handler;
  int32_t     sa_flags;
  target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
  int         sival_int;
  abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
```

```
  int32_t     _signo;
  int32_t     _code;
  int32_t     _errno;
#if TARGET_ABI_BITS == 64
  int32_t     _pad;
#endif
  union {
     struct {
        int32_t            _pid;
        int32_t
       _uid;
        target_sigval_t    _value;
     } _rt;

     struct {
        int32_t            _pid;
        int32_t            _uid;
        int32_t            _struct;
        /* clock_t          _utime; */
        /* clock_t          _stime; */
     } _child;

     struct {
        abi_ulong          _addr;
        int32_t            _trap;
     } _fault;

     struct {
        long               _band;
        int                _fd;
     } _poll;
  } _reason;
};

typedef union target_siginfo {
  int8_t     si_pad[128];
  struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
```

```
#define TARGET_TRAP_TRACE   2


#endif /* TARGET_OS_SIGINFO_H
 */
/*
* Emulation of BSD signals
*
* Copyright (c) 2013 Stacey Son
*
* SPDX-License-Identifier: GPL-2.0-or-later
*/

#ifndef SIGNAL_COMMON_H
#define SIGNAL_COMMON_H

/**
* block_signals: block all signals while handling this guest syscall
*
* Block all signals, and arrange that the signal mask is returned to
* its correct value for the guest before we resume execution of guest code.
* If this function returns non-zero, then the caller should immediately
* return -TARGET_ERESTARTSYS to the main loop, which will take the pending
* signal and restart execution of the syscall.
* If block_signals() returns zero, then the caller can continue with
* emulation of the system call knowing that no signals can be taken
* (and therefore that no race conditions will result).
* This should only be called once, because if it is called a second time
* it will always return non-zero. (Think of it like a mutex that can't
* be recursively locked.)
* Signals will be unblocked again by process_pending_signals().
 *
* Return value: non-zero if there was a pending signal, zero if not.
*/
int block_signals(void); /* Returns non zero if signal pending */

long do_rt_sigreturn(CPUArchState *env);
int do_sigaction(int sig, const struct target_sigaction *act,
            struct target_sigaction *oact);
abi_long do_sigaltstack(abi_ulong uss_addr, abi_ulong uoss_addr, abi_ulong sp);
long do_sigreturn(CPUArchState *env, abi_ulong addr);
void force_sig_fault(int sig, int code, abi_ulong addr);
void host_to_target_siginfo(target_siginfo_t *tinfo, const siginfo_t *info);
int host_to_target_signal(int sig);
void host_to_target_sigset(target_sigset_t *d, const sigset_t *s);
void process_pending_signals(CPUArchState *env);
void queue_signal(CPUArchState *env, int sig, int si_type,
              target_siginfo_t *info);
```

```
void signal_init(void);
int target_to_host_signal(int sig);
void target_to_host_sigset(sigset_t *d, const target_sigset_t *s);

/*
* Within QEMU the top 8 bits
 of si_code indicate which of the parts of the
* union in target_siginfo is valid. This only applies between
* host_to_target_siginfo_noswap() and tswap_siginfo(); it does not appear
* either within host siginfo_t or in target_siginfo structures which we get
* from the guest userspace program. Linux kernels use this internally, but BSD
* kernels don't do this, but its a useful abstraction.
*
* The linux-user version of this uses the top 16 bits, but FreeBSD's SI_USER
* and other signal independent SI_ codes have bit 16 set, so we only use the top
* byte instead.
*
* For FreeBSD, we have si_pid, si_uid, si_status, and si_addr always. Linux and
* {Open,Net}BSD have a different approach (where their reason field is larger,
* but whose siginfo has fewer fields always).
*
* QEMU_SI_CAPSICUM is currently only FreeBSD 14 current only, so only define
* it where _capsicum is available.
*/
#define QEMU_SI_NOINFO   0      /* nothing other than si_signo valid */
#define QEMU_SI_FAULT
    1      /* _fault is valid in _reason */
#define QEMU_SI_TIMER    2      /* _timer is valid in _reason */
#define QEMU_SI_MESGQ    3      /* _mesgq is valid in _reason */
#define QEMU_SI_POLL     4      /* _poll is valid in _reason */
#if defined(__FreeBSD_version) && __FreeBSD_version >= 1400026
#define QEMU_SI_CAPSICUM 5      /* _capsicum is valid in _reason */
#endif

#endif
```

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```
/*
*  x86_64 sysarch() syscall emulation
*
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
   abi_long ret = 0;
   abi_ulong val;
   int idx;

   switch (op) {
   case TARGET_FREEBSD_AMD64_SET_GSBASE:
```

```
    case TARGET_FREEBSD_AMD64_SET_FSBASE:
        if (op == TARGET_FREEBSD_AMD64_SET_GSBASE) {
            idx = R_GS;
        } else {
            idx = R_FS;
        }
        if (get_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        cpu_x86_load_seg(env, idx, 0);
        env->segs[idx].base = val;
        break;

    case TARGET_FREEBSD_AMD64_GET_GSBASE:
    case TARGET_FREEBSD_AMD64_GET_FSBASE:
        if (op == TARGET_FREEBSD_AMD64_GET_GSBASE) {
            idx = R_GS;
        } else {
            idx = R_FS;
        }
        val = env->segs[idx].base;
        if (put_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        break;

    /* XXX handle the others... */
    default:
        ret = -TARGET_EINVAL;
        break;
    }
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4, abi_long
 arg5, abi_long arg6)
{

    gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
        TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /* TARGET_ARCH_SYSARCH_H */
#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H
```

```
#define TARGET_NSIG     32   /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
   abi_long    ss_sp;
   abi_ulong   ss_size;
   abi_long    ss_flags;
} target_stack_t;

typedef struct {
   uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
   abi_ulong   _sa_handler;
   int32_t     sa_flags;
   target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
   int         sival_int;
   abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
   int32_t     _signo;
   int32_t     _code;
   int32_t     _errno;
#if TARGET_ABI_BITS == 64
   int32_t     _pad;
#endif
   union {
      struct {
         int32_t             _pid;
         int32_t
         _uid;
         target_sigval_t    _value;
      } _rt;

      struct {
         int32_t             _pid;
         int32_t             _uid;
         int32_t             _struct;
         /* clock_t          _utime; */
         /* clock_t          _stime; */
```

```
        } _child;

        struct {
            abi_ulong           _addr;
            int32_t             _trap;
        } _fault;

        struct {
            long                _band;
            int                 _fd;
        } _poll;
    } _reason;
};

typedef union target_siginfo {
    int8_t     si_pad[128];
    struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
#define TARGET_TRAP_TRACE   2


#endif /* TARGET_OS_SIGINFO_H
 */
/*
*  x86_64 ELF definitions
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```

```
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*/

#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x01021000
#define elf_check_arch(x) (((x) == ELF_ARCH))

#define ELF_HWCAP      0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define ELF_CLASS      ELFCLASS64
#define ELF_DATA
   ELFDATA2LSB
#define ELF_ARCH       EM_X86_64

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096

#endif /* TARGET_ARCH_ELF_H */
/*
*  arm cpu system call stubs
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*/

#ifndef ARM_TARGET_SYSCALL_H
#define ARM_TARGET_SYSCALL_H

struct target_pt_regs {
   abi_long uregs[17];
};

#define ARM_cpsr    uregs[16]
```

```
#define ARM_pc      uregs[15]
#define ARM_lr      uregs[14]
#define ARM_sp      uregs[13]
#define ARM_ip      uregs[12]
#define
 ARM_fp      uregs[11]
#define ARM_r10     uregs[10]
#define ARM_r9      uregs[9]
#define ARM_r8      uregs[8]
#define ARM_r7      uregs[7]
#define ARM_r6      uregs[6]
#define ARM_r5      uregs[5]
#define ARM_r4      uregs[4]
#define ARM_r3      uregs[3]
#define ARM_r2      uregs[2]
#define ARM_r1      uregs[1]
#define ARM_r0      uregs[0]

#define ARM_SYSCALL_BASE    0 /* XXX: FreeBSD only */

#define TARGET_FREEBSD_ARM_SYNC_ICACHE      0
#define TARGET_FREEBSD_ARM_DRAIN_WRITEBUF   1
#define TARGET_FREEBSD_ARM_SET_TP       2
#define TARGET_FREEBSD_ARM_GET_TP       3

#define TARGET_HW_MACHINE       "arm"
#define TARGET_HW_MACHINE_ARCH  "armv7"

#endif /* ARM_TARGET_SYSCALL_H */
bsd_user_ss.add(files(
 'os-stat.c',
 'os-proc.c',
 'os-sys.c',
 'os-syscall.c',
))
/*      $OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $      */

/*
* System call numbers.
*
* created from;        OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall     0
#define TARGET_OPENBSD_NR_exit        1
#define TARGET_OPENBSD_NR_fork        2
#define TARGET_OPENBSD_NR_read        3
#define TARGET_OPENBSD_NR_write       4
```

```
#define TARGET_OPENBSD_NR_open        5
#define TARGET_OPENBSD_NR_close       6
#define TARGET_OPENBSD_NR_wait4       7
#define TARGET_OPENBSD_NR_link        9
#define TARGET_OPENBSD_NR_unlink      10
#define TARGET_OPENBSD_NR_chdir       12
#define TARGET_OPENBSD_NR_fchdir      13
#define TARGET_OPENBSD_NR_mknod       14
#define TARGET_OPENBSD_NR_chmod       15
#define TARGET_OPENBSD_NR_chown       16
#define TARGET_OPENBSD_NR_break       17
#define TARGET_OPENBSD_NR_getpid      20
#define TARGET_OPENBSD_NR_mount       21
#define TARGET_OPENBSD_NR_unmount     22
#define TARGET_OPENBSD_NR_setuid
    23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin
    50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
```

```
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer
  86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend  111
#define TARGET_OPENBSD_NR_gettimeofday        116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename
    128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
```

```
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_setgid      181
#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segclean        186
#define TARGET_OPENBSD_NR_lfs_segwait
 187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR_getdirentries       196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___syscall   198
#define TARGET_OPENBSD_NR_lseek       199
#define TARGET_OPENBSD_NR_truncate    200
#define TARGET_OPENBSD_NR_ftruncate   201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspioctl   208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime
     232
#define TARGET_OPENBSD_NR_clock_settime       233
#define TARGET_OPENBSD_NR_clock_getres        234
#define TARGET_OPENBSD_NR_nanosleep   240
```

```
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_issetugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
#define TARGET_OPENBSD_NR_fhopen      264
#define TARGET_OPENBSD_NR_preadv      267
#define TARGET_OPENBSD_NR_pwritev     268
#define TARGET_OPENBSD_NR_kqueue      269
#define TARGET_OPENBSD_NR_kevent      270
#define TARGET_OPENBSD_NR_mlockall    271
#define TARGET_OPENBSD_NR_munlockall  272
#define TARGET_OPENBSD_NR_getpeereid  273
#define TARGET_OPENBSD_NR_getresuid   281
#define TARGET_OPENBSD_NR_setresuid   282
#define TARGET_OPENBSD_NR_getresgid   283
#define TARGET_OPENBSD_NR_setresgid
   284
#define TARGET_OPENBSD_NR_mquery      286
#define TARGET_OPENBSD_NR_closefrom   287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget      289
#define TARGET_OPENBSD_NR_semop       290
#define TARGET_OPENBSD_NR_stat        291
#define TARGET_OPENBSD_NR_fstat       292
#define TARGET_OPENBSD_NR_lstat       293
#define TARGET_OPENBSD_NR_fhstat      294
#define TARGET_OPENBSD_NR___semctl    295
#define TARGET_OPENBSD_NR_shmctl      296
#define TARGET_OPENBSD_NR_msgctl      297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleep    300
#define TARGET_OPENBSD_NR_thrwakeup   301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert        303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs
   309

/* syscall flags from machine/trap.h */
```

```
/*      $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $       */
/*      $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
/*
*  netbsd ELF definitions
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*/
```

```
#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                          abi_ulong stringp,
```

```
                                struct elfhdr *exec,
                                abi_ulong load_addr,
                                 abi_ulong load_bias,
                                abi_ulong interp_load_addr,
                                struct image_info *info)
{
    abi_ulong sp;
    int size;
    abi_ulong u_platform;
    const char *k_platform;
    const int n = sizeof(elf_addr_t);

    sp = p;
    u_platform = 0;
    k_platform = ELF_PLATFORM;
    if (k_platform) {
        size_t len = strlen(k_platform) + 1;
        sp -= (len + n - 1) & ~(n - 1);
        u_platform = sp;
        /* FIXME - check return value of memcpy_to_target() for failure */
        memcpy_to_target(sp, k_platform, len);
    }
    /*
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    if (k_platform) {
        size += 2;
    }
#ifdef DLINFO_ARCH_ITEMS
    size += DLINFO_ARCH_ITEMS * 2;
#endif
     size += envc + argc + 2;
    size += 1;                      /* argc itself */
    size *= n;
    if (size & 15) {
        sp -= 16 - (size & 15);
    }

    /*
     * NetBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
        sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
      } while (0)
```

```
    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    NEW_AUX_ENT(AT_UID,
 (abi_ulong)getuid());
    NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
    NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
    if (k_platform) {
        NEW_AUX_ENT(AT_PLATFORM, u_platform);
    }
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* TARGET_OS_ELF_H */
```

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```
/*
*  NetBSD setup_initial_stack() implementation.
*
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*/

#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
   abi_ulong *stringp)
{
   int i;
   abi_ulong stack_base;

   stack_base
 = (target_stkbas + target_stksiz) -
               MAX_ARG_PAGES * TARGET_PAGE_SIZE;
   if (p) {
       *p = stack_base;
   }
   if (stringp) {
       *stringp = stack_base;
   }

   for (i = 0; i < MAX_ARG_PAGES; i++) {
```

```
    if (bprm->page[i]) {
        info->rss++;
        if (!memcpy_to_target(stack_base, bprm->page[i],
                  TARGET_PAGE_SIZE)) {
            errno = EFAULT;
            return -1;
        }
        g_free(bprm->page[i]);
    }
    stack_base += TARGET_PAGE_SIZE;
  }

  return 0;
}

#endif /* TARGET_OS_STACK_H */
/* SPDX-License-Identifier: BSD-3-Clause */
/*
* QEMU internal errno values for implementing user-only POSIX.
*
*  Copyright (c) 2021 Linaro, Ltd.
*/

#ifndef SPECIAL_ERRNO_H
#define SPECIAL_ERRNO_H

/*
* All of these are QEMU internal, not visible to the guest.
* They should be chosen so as to not overlap with any host
* or guest errno.
*/

/*
* This is returned when a system call should be restarted, to tell the
* main loop that it should wind the guest PC backwards so it will
* re-execute the syscall after handling any pending signals.
*/
#define QEMU_ERESTARTSYS  255

#endif /* SPECIAL_ERRNO_H */
/*
*  i386 sysarch system call emulation
*
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```

```
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
   abi_long ret = 0;
   abi_ulong val;
   int idx;

   switch
 (op) {
   case TARGET_FREEBSD_I386_SET_GSBASE:
   case TARGET_FREEBSD_I386_SET_FSBASE:
      if (op == TARGET_FREEBSD_I386_SET_GSBASE) {
         idx = R_GS;
      } else {
         idx = R_FS;
      }
      if (get_user(val, parms, abi_ulong)) {
         return -TARGET_EFAULT;
      }
      cpu_x86_load_seg(env, idx, 0);
      env->segs[idx].base = val;
      break;

   case TARGET_FREEBSD_I386_GET_GSBASE:
   case TARGET_FREEBSD_I386_GET_FSBASE:
      if (op == TARGET_FREEBSD_I386_GET_GSBASE) {
         idx = R_GS;
      } else {
         idx = R_FS;
      }
      val = env->segs[idx].base;
      if (put_user(val, parms, abi_ulong)) {
```

```
            return -TARGET_EFAULT;
        }
        break;

    /* XXX handle the others... */
    default:
        ret = -TARGET_EINVAL;
        break;
    }
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,
        abi_long
 arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

    gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
        TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /* TARGET_ARCH_SYSARCH_H */
/*
*  freebsd ELF definitions
*
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*/

#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"
```

```
#define bsd_get_ncpu() 1 /* until we pull in bsd-proc.[hc] */

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE
 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

/* XXX Look at the other conflicting AT_* values. */
#define FREEBSD_AT_NCPUS     19
#define FREEBSD_AT_HWCAP     25
#define FREEBSD_AT_HWCAP2    26

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 14

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,

                          abi_ulong stringp,
                                struct elfhdr *exec,
                                abi_ulong load_addr,
```

```
                                abi_ulong load_bias,
                                abi_ulong interp_load_addr,
                                struct image_info *info)
{
    abi_ulong features, sp;
    int size;
    const int n = sizeof(elf_addr_t);

    target_auxents_sz = 0;
    sp = p;
    /*
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    size += envc + argc + 2;
    size += 1;                  /* argc itself */
    size *= n;
    if (size & 15) {
        sp -= 16 - (size & 15);
    }

    /*
     * FreeBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \

        sp -= n; put_user_ual(val, sp);     \
         sp -= n; put_user_ual(id, sp);      \
         target_auxents_sz += 2 * n;         \
       } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(FREEBSD_AT_NCPUS, (abi_ulong)bsd_get_ncpu());
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    features = ELF_HWCAP;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP, features);
#ifdef ELF_HWCAP2
    features = ELF_HWCAP2;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP2, features);
```

```
#endif
    NEW_AUX_ENT(AT_UID, (abi_ulong)getuid());

  NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    target_auxents = sp; /* Note where the aux entries are in the target */
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* TARGET_OS_ELF_H */
```

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/*
* FreeBSD setup_initial_stack() implementation.
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```
*/

#ifndef TARGET_OS_STACK_H
#define TARGET_OS_STACK_H

#include <sys/param.h>
#include "target_arch_sigtramp.h"
#include "qemu/guest-random.h"

/*
* The initial FreeBSD stack is as follows:
* (see kern/kern_exec.c exec_copyout_strings() )
*
 *  Hi Address -> char **ps_argvstr  (struct ps_strings for ps, w, etc.)
*               unsigned ps_nargvstr
*               char **ps_envstr
*  PS_STRINGS -> unsigned ps_nenvstr
*
*               machine dependent sigcode (sv_sigcode of size
*                                  sv_szsigcode)
*
*               execpath          (absolute image path for rtld)
*
*               SSP Canary        (sizeof(long) * 8)
*
*               page sizes array  (usually sizeof(u_long) )
*
*  "destp" ->    argv, env strings (up to 262144 bytes)
*/
static inline int setup_initial_stack(struct bsd_binprm *bprm,
       abi_ulong *ret_addr, abi_ulong *stringp)
{
   int i;
   abi_ulong stack_hi_addr;
   size_t execpath_len, stringspace;
   abi_ulong destp, argvp, envp, p;
   struct target_ps_strings ps_strs;
   char canary[sizeof(abi_long) * 8];

   stack_hi_addr = p = target_stkbas + target_stksiz;

   /* Save some space for ps_strings. */
   p -= sizeof(struct target_ps_strings);

    /* Add machine dependent sigcode. */
   p -= TARGET_SZSIGCODE;
   if (setup_sigtramp(p, (unsigned)offsetof(struct target_sigframe, sf_uc),
          TARGET_FREEBSD_NR_sigreturn)) {
```

```
    errno = EFAULT;
    return -1;
}
if (bprm->fullpath) {
    execpath_len = strlen(bprm->fullpath) + 1;
    p -= roundup(execpath_len, sizeof(abi_ulong));
    if (memcpy_to_target(p, bprm->fullpath, execpath_len)) {
        errno = EFAULT;
        return -1;
    }
}
/* Add canary for SSP. */
qemu_guest_getrandom_nofail(canary, sizeof(canary));
p -= roundup(sizeof(canary), sizeof(abi_ulong));
if (memcpy_to_target(p, canary, sizeof(canary))) {
    errno = EFAULT;
    return -1;
}
/* Add page sizes array. */
p -= sizeof(abi_ulong);
if (put_user_ual(TARGET_PAGE_SIZE, p)) {
    errno = EFAULT;
    return -1;
}
/*
 * Deviate from FreeBSD stack layout: force stack to new page here

* so that signal trampoline is not sharing the page with user stack
 * frames. This is actively harmful in qemu as it marks pages with
 * code it translated as read-only, which is somewhat problematic
 * for user trying to use the stack as intended.
 */
p = rounddown(p, TARGET_PAGE_SIZE);

/* Calculate the string space needed */
stringspace = 0;
for (i = 0; i < bprm->argc; ++i) {
    stringspace += strlen(bprm->argv[i]) + 1;
}
for (i = 0; i < bprm->envc; ++i) {
    stringspace += strlen(bprm->envp[i]) + 1;
}
if (stringspace > TARGET_ARG_MAX) {
    errno = ENOMEM;
    return -1;
}
/* Make room for the argv and envp strings */
destp = rounddown(p - stringspace, sizeof(abi_ulong));
```

```
  p = argvp = destp - (bprm->argc + bprm->envc + 2) * sizeof(abi_ulong);
  /* Remember the strings pointer */
  if (stringp) {
      *stringp = destp;
  }
  /*
   * Add argv strings.  Note that the argv[] vectors are added
by
   * loader_build_argptr()
   */
  /* XXX need to make room for auxargs */
  ps_strs.ps_argvstr = tswapl(argvp);
  ps_strs.ps_nargvstr = tswap32(bprm->argc);
  for (i = 0; i < bprm->argc; ++i) {
      size_t len = strlen(bprm->argv[i]) + 1;

      if (memcpy_to_target(destp, bprm->argv[i], len)) {
          errno = EFAULT;
          return -1;
      }
      if (put_user_ual(destp, argvp)) {
          errno = EFAULT;
          return -1;
      }
      argvp += sizeof(abi_ulong);
      destp += len;
  }
  if (put_user_ual(0, argvp)) {
      errno = EFAULT;
      return -1;
  }
  /*
   * Add env strings. Note that the envp[] vectors are added by
   * loader_build_argptr().
   */
  envp = argvp + sizeof(abi_ulong);
  ps_strs.ps_envstr = tswapl(envp);
  ps_strs.ps_nenvstr = tswap32(bprm->envc);
  for (i = 0; i < bprm->envc; ++i) {
      size_t len = strlen(bprm->envp[i]) + 1;

      if (memcpy_to_target(destp, bprm->envp[i],
len)) {
          errno = EFAULT;
          return -1;
      }
      if (put_user_ual(destp, envp)) {
          errno = EFAULT;
```

```
        return -1;
    }
    envp += sizeof(abi_ulong);
    destp += len;
  }
  if (put_user_ual(0, envp)) {
    errno = EFAULT;
    return -1;
  }
  if (memcpy_to_target(stack_hi_addr - sizeof(ps_strs), &ps_strs,
            sizeof(ps_strs))) {
    errno = EFAULT;
    return -1;
  }

  if (ret_addr) {
    *ret_addr = p;
  }

  return 0;
}

#endif /* TARGET_OS_STACK_H */
/*
*  FreeBSD conversion extern declarations
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*/

#ifndef QEMU_OS_H
#define QEMU_OS_H

/* qemu/osdep.h pulls in the rest */

#include <sys/acl.h>
```

```
#include <sys/mount.h>
#include <sys/timex.h>
#include <sys/rtprio.h>
#include <sys/select.h>
#include <sys/socket.h>
#include <netinet/in.h>

struct freebsd11_stat;

/*
 os-stat.c */
abi_long h2t_freebsd11_stat(abi_ulong target_addr,
      struct freebsd11_stat *host_st);
abi_long h2t_freebsd11_nstat(abi_ulong target_addr,
      struct freebsd11_stat *host_st);
abi_long t2h_freebsd_fhandle(fhandle_t *host_fh, abi_ulong target_addr);
abi_long h2t_freebsd_fhandle(abi_ulong target_addr, fhandle_t *host_fh);
abi_long h2t_freebsd11_statfs(abi_ulong target_addr,
   struct freebsd11_statfs *host_statfs);
abi_long target_to_host_fcntl_cmd(int cmd);
abi_long h2t_freebsd_stat(abi_ulong target_addr,
      struct stat *host_st);
abi_long h2t_freebsd_statfs(abi_ulong target_addr,
   struct statfs *host_statfs);

#endif /* QEMU_OS_H */
```

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```
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```
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*/

#ifndef BSD_FILE_H
#define BSD_FILE_H

#include "qemu/path.h"

#define LOCK_PATH(p, arg)                   \
do {                                        \
   (p) = lock_user_string(arg);             \
   if ((p) == NULL) {
  \
       return -TARGET_EFAULT;               \
   }                                        \
} while (0)

#define UNLOCK_PATH(p, arg)     unlock_user(p, arg, 0)

#define LOCK_PATH2(p1, arg1, p2, arg2)      \
do {                                        \
   (p1) = lock_user_string(arg1);           \
   if ((p1) == NULL) {                      \
       return -TARGET_EFAULT;               \
   }                                        \
   (p2) = lock_user_string(arg2);           \
   if ((p2) == NULL) {                      \
       unlock_user(p1, arg1, 0);            \
       return -TARGET_EFAULT;               \
   }                                        \
} while (0)

#define UNLOCK_PATH2(p1, arg1, p2, arg2)    \
do {                                        \
   unlock_user(p2, arg2, 0);                \
   unlock_user(p1, arg1, 0);                \
} while (0)

struct iovec *lock_iovec(int type, abi_ulong target_addr, int count, int copy);
void unlock_iovec(struct iovec *vec, abi_ulong
 target_addr, int count, int copy);

int safe_open(const char *path, int flags, mode_t mode);
int safe_openat(int fd, const char *path, int flags, mode_t mode);

ssize_t safe_read(int fd, void *buf, size_t nbytes);
```

```
ssize_t safe_pread(int fd, void *buf, size_t nbytes, off_t offset);
ssize_t safe_readv(int fd, const struct iovec *iov, int iovcnt);
ssize_t safe_preadv(int fd, const struct iovec *iov, int iovcnt, off_t offset);

ssize_t safe_write(int fd, void *buf, size_t nbytes);
ssize_t safe_pwrite(int fd, void *buf, size_t nbytes, off_t offset);
ssize_t safe_writev(int fd, const struct iovec *iov, int iovcnt);
ssize_t safe_pwritev(int fd, const struct iovec *iov, int iovcnt, off_t offset);

/* read(2) */
static abi_long do_bsd_read(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long ret;
   void *p;

   p = lock_user(VERIFY_WRITE, arg2, arg3, 0);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
   ret = get_errno(safe_read(arg1, p, arg3));
   unlock_user(p, arg2,
 ret);

   return ret;
}

/* pread(2) */
static abi_long do_bsd_pread(void *cpu_env, abi_long arg1,
   abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
   abi_long ret;
   void *p;

   p = lock_user(VERIFY_WRITE, arg2, arg3, 0);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
   if (regpairs_aligned(cpu_env) != 0) {
       arg4 = arg5;
       arg5 = arg6;
   }
   ret = get_errno(safe_pread(arg1, p, arg3, target_arg64(arg4, arg5)));
   unlock_user(p, arg2, ret);

   return ret;
}

/* readv(2) */
```

```
static abi_long do_bsd_readv(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long ret;
   struct iovec *vec = lock_iovec(VERIFY_WRITE, arg2, arg3, 0);

   if (vec != NULL) {
       ret = get_errno(safe_readv(arg1, vec, arg3));
       unlock_iovec(vec, arg2, arg3, 1);
   } else {
       ret = -host_to_target_errno(errno);
   }

   return ret;
}

/* preadv(2) */
static abi_long do_bsd_preadv(void *cpu_env, abi_long arg1,
   abi_long
 arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
   abi_long ret;
   struct iovec *vec = lock_iovec(VERIFY_WRITE, arg2, arg3, 1);

   if (vec != NULL) {
       if (regpairs_aligned(cpu_env) != 0) {
           arg4 = arg5;
           arg5 = arg6;
       }
       ret = get_errno(safe_preadv(arg1, vec, arg3, target_arg64(arg4, arg5)));
       unlock_iovec(vec, arg2, arg3, 0);
   } else {
       ret = -host_to_target_errno(errno);
   }

   return ret;
}

/* write(2) */
static abi_long do_bsd_write(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long nbytes, ret;
   void *p;

   /* nbytes < 0 implies that it was larger than SIZE_MAX. */
   nbytes = arg3;
   if (nbytes < 0) {
       return -TARGET_EINVAL;
   }
```

```
    p = lock_user(VERIFY_READ, arg2, nbytes, 1);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(safe_write(arg1, p, arg3));
    unlock_user(p, arg2, 0);

    return ret;
}

/* pwrite(2) */
static abi_long
 do_bsd_pwrite(void *cpu_env, abi_long arg1,
    abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{
    abi_long ret;
    void *p;

    p = lock_user(VERIFY_READ, arg2, arg3, 1);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    if (regpairs_aligned(cpu_env) != 0) {
        arg4 = arg5;
        arg5 = arg6;
    }
    ret = get_errno(safe_pwrite(arg1, p, arg3, target_arg64(arg4, arg5)));
    unlock_user(p, arg2, 0);

    return ret;
}

/* writev(2) */
static abi_long do_bsd_writev(abi_long arg1, abi_long arg2, abi_long arg3)
{
    abi_long ret;
    struct iovec *vec = lock_iovec(VERIFY_READ, arg2, arg3, 1);

    if (vec != NULL) {
        ret = get_errno(safe_writev(arg1, vec, arg3));
        unlock_iovec(vec, arg2, arg3, 0);
    } else {
        ret = -host_to_target_errno(errno);
    }

    return ret;
}
```

```
/* pwritev(2) */
static abi_long do_bsd_pwritev(void *cpu_env, abi_long arg1,
   abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5, abi_long
 arg6)
{
   abi_long ret;
   struct iovec *vec = lock_iovec(VERIFY_READ, arg2, arg3, 1);

   if (vec != NULL) {
       if (regpairs_aligned(cpu_env) != 0) {
           arg4 = arg5;
           arg5 = arg6;
       }
       ret = get_errno(safe_pwritev(arg1, vec, arg3, target_arg64(arg4, arg5)));
       unlock_iovec(vec, arg2, arg3, 0);
   } else {
       ret = -host_to_target_errno(errno);
   }

   return ret;
}

/* open(2) */
static abi_long do_bsd_open(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(safe_open(path(p), target_to_host_bitmask(arg2,
               fcntl_flags_tbl), arg3));
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* openat(2) */
static abi_long do_bsd_openat(abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(safe_openat(arg1, path(p),
               target_to_host_bitmask(arg3, fcntl_flags_tbl),
 arg4));
   UNLOCK_PATH(p, arg2);
```

```
  return ret;
}

/* close(2) */
static abi_long do_bsd_close(abi_long arg1)
{
  return get_errno(close(arg1));
}

/* fdatasync(2) */
static abi_long do_bsd_fdatasync(abi_long arg1)
{
  return get_errno(fdatasync(arg1));
}

/* fsync(2) */
static abi_long do_bsd_fsync(abi_long arg1)
{
  return get_errno(fsync(arg1));
}

/* closefrom(2) */
static abi_long do_bsd_closefrom(abi_long arg1)
{
  closefrom(arg1);  /* returns void */
  return get_errno(0);
}

/* revoke(2) */
static abi_long do_bsd_revoke(abi_long arg1)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(revoke(p)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* access(2) */
static abi_long do_bsd_access(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
```

```
   LOCK_PATH(p, arg1);
   ret = get_errno(access(path(p), arg2));
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* eaccess(2) */
static abi_long do_bsd_eaccess(abi_long
 arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(eaccess(path(p), arg2));
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* faccessat(2) */
static abi_long do_bsd_faccessat(abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(faccessat(arg1, p, arg3, arg4)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* chdir(2) */
static abi_long do_bsd_chdir(abi_long arg1)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(chdir(p)); /* XXX  path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}
```

```
/* fchdir(2) */
static abi_long do_bsd_fchdir(abi_long arg1)
{
   return get_errno(fchdir(arg1));
}

/* rename(2) */
static abi_long do_bsd_rename(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p1, *p2;

   LOCK_PATH2(p1, arg1, p2, arg2);
   ret = get_errno(rename(p1, p2)); /* XXX path(p1),
 path(p2) */
   UNLOCK_PATH2(p1, arg1, p2, arg2);

   return ret;
}

/* renameat(2) */
static abi_long do_bsd_renameat(abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p1, *p2;

   LOCK_PATH2(p1, arg2, p2, arg4);
   ret = get_errno(renameat(arg1, p1, arg3, p2));
   UNLOCK_PATH2(p1, arg2, p2, arg4);

   return ret;
}

/* link(2) */
static abi_long do_bsd_link(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p1, *p2;

   LOCK_PATH2(p1, arg1, p2, arg2);
   ret = get_errno(link(p1, p2)); /* XXX path(p1), path(p2) */
   UNLOCK_PATH2(p1, arg1, p2, arg2);

   return ret;
}

/* linkat(2) */
```

```
static abi_long do_bsd_linkat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5)
{
   abi_long ret;
   void *p1, *p2;

   LOCK_PATH2(p1, arg2, p2, arg4);
   ret = get_errno(linkat(arg1, p1, arg3, p2, arg5));
   UNLOCK_PATH2(p1, arg2, p2, arg4);

   return ret;
}

/* unlink(2) */
static abi_long do_bsd_unlink(abi_long
 arg1)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(unlink(p)); /* XXX path(p) */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* unlinkat(2) */
static abi_long do_bsd_unlinkat(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(unlinkat(arg1, p, arg3)); /* XXX path(p) */
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* mkdir(2) */
static abi_long do_bsd_mkdir(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
```

```
   ret = get_errno(mkdir(p, arg2)); /* XXX path(p) */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* mkdirat(2) */
static abi_long do_bsd_mkdirat(abi_long arg1, abi_long arg2,
       abi_long arg3)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(mkdirat(arg1, p, arg3));
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* rmdir(2) */
static abi_long do_bsd_rmdir(abi_long arg1)
{
   abi_long
 ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(rmdir(p)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* undocumented __getcwd(char *buf, size_t len)  system call */
static abi_long do_bsd___getcwd(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
   ret = safe_syscall(SYS___getcwd, p, arg2);
   unlock_user(p, arg1, ret == 0 ? strlen(p) + 1 : 0);

   return get_errno(ret);
```

```
}

/* dup(2) */
static abi_long do_bsd_dup(abi_long arg1)
{
   return get_errno(dup(arg1));
}

/* dup2(2) */
static abi_long do_bsd_dup2(abi_long arg1, abi_long arg2)
{
   return get_errno(dup2(arg1, arg2));
}

/* truncate(2) */
static abi_long do_bsd_truncate(void *cpu_env, abi_long arg1,
       abi_long arg2, abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   if (regpairs_aligned(cpu_env) != 0) {
       arg2
 = arg3;
       arg3 = arg4;
   }
   ret = get_errno(truncate(p, target_arg64(arg2, arg3)));
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* ftruncate(2) */
static abi_long do_bsd_ftruncate(void *cpu_env, abi_long arg1,
       abi_long arg2, abi_long arg3, abi_long arg4)
{
   if (regpairs_aligned(cpu_env) != 0) {
       arg2 = arg3;
       arg3 = arg4;
   }
   return get_errno(ftruncate(arg1, target_arg64(arg2, arg3)));
}

/* acct(2) */
static abi_long do_bsd_acct(abi_long arg1)
{
   abi_long ret;
```

```
    void *p;

    if (arg1 == 0) {
        ret = get_errno(acct(NULL));
    } else {
        LOCK_PATH(p, arg1);
        ret = get_errno(acct(path(p)));
        UNLOCK_PATH(p, arg1);
    }
    return ret;
}

/* sync(2) */
static abi_long do_bsd_sync(void)
{
    sync();
    return 0;
}

/* mount(2) */
static abi_long do_bsd_mount(abi_long arg1, abi_long arg2, abi_long arg3,
        abi_long arg4)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH2(p1, arg1, p2, arg2);
    /*

   * XXX arg4 should be locked, but it isn't clear how to do that since it may
     * be not be a NULL-terminated string.
     */
    if (arg4 == 0) {
        ret = get_errno(mount(p1, p2, arg3, NULL)); /* XXX path(p2)? */
    } else {
        ret = get_errno(mount(p1, p2, arg3, g2h_untagged(arg4))); /* XXX path(p2)? */
    }
    UNLOCK_PATH2(p1, arg1, p2, arg2);

    return ret;
}

/* unmount(2) */
static abi_long do_bsd_unmount(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    void *p;
```

```
    LOCK_PATH(p, arg1);
    ret = get_errno(unmount(p, arg2)); /* XXX path(p)? */
    UNLOCK_PATH(p, arg1);

    return ret;
}

/* nmount(2) */
static abi_long do_bsd_nmount(abi_long arg1, abi_long count,
        abi_long flags)
{
    abi_long ret;
    struct iovec *vec = lock_iovec(VERIFY_READ, arg1, count, 1);

    if (vec != NULL) {
        ret = get_errno(nmount(vec, count, flags));
        unlock_iovec(vec, arg1, count, 0);
    } else {
        return -TARGET_EFAULT;
    }

    return ret;
}

/*
 symlink(2) */
static abi_long do_bsd_symlink(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH2(p1, arg1, p2, arg2);
    ret = get_errno(symlink(p1, p2)); /* XXX path(p1), path(p2) */
    UNLOCK_PATH2(p1, arg1, p2, arg2);

    return ret;
}

/* symlinkat(2) */
static abi_long do_bsd_symlinkat(abi_long arg1, abi_long arg2,
        abi_long arg3)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH2(p1, arg1, p2, arg3);
    ret = get_errno(symlinkat(p1, arg2, p2)); /* XXX path(p1), path(p2) */
    UNLOCK_PATH2(p1, arg1, p2, arg3);
```

```
    return ret;
}

/* readlink(2) */
static abi_long do_bsd_readlink(CPUArchState *env, abi_long arg1,
        abi_long arg2, abi_long arg3)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH(p1, arg1);
    p2 = lock_user(VERIFY_WRITE, arg2, arg3, 0);
    if (p2 == NULL) {
        UNLOCK_PATH(p1, arg1);
        return -TARGET_EFAULT;
    }
    if (strcmp(p1, "/proc/curproc/file") == 0) {
        CPUState *cpu = env_cpu(env);
         TaskState *ts = (TaskState *)cpu->opaque;
        strncpy(p2, ts->bprm->fullpath, arg3);
        ret = MIN((abi_long)strlen(ts->bprm->fullpath), arg3);
    } else {
        ret = get_errno(readlink(path(p1), p2, arg3));
    }
    unlock_user(p2, arg2, ret);
    UNLOCK_PATH(p1, arg1);

    return ret;
}

/* readlinkat(2) */
static abi_long do_bsd_readlinkat(abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4)
{
    abi_long ret;
    void *p1, *p2;

    LOCK_PATH(p1, arg2);
    p2 = lock_user(VERIFY_WRITE, arg3, arg4, 0);
    if (p2 == NULL) {
        UNLOCK_PATH(p1, arg2);
        return -TARGET_EFAULT;
    }
    ret = get_errno(readlinkat(arg1, p1, p2, arg4));
    unlock_user(p2, arg3, ret);
    UNLOCK_PATH(p1, arg2);
```

```
   return ret;
}

/* chmod(2) */
static abi_long do_bsd_chmod(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(chmod(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return
 ret;
}

/* fchmod(2) */
static abi_long do_bsd_fchmod(abi_long arg1, abi_long arg2)
{
   return get_errno(fchmod(arg1, arg2));
}

/* lchmod(2) */
static abi_long do_bsd_lchmod(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(lchmod(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* fchmodat(2) */
static abi_long do_bsd_fchmodat(abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(fchmodat(arg1, p, arg3, arg4));
   UNLOCK_PATH(p, arg2);

   return ret;
```

```
}

/* pre-ino64 mknod(2) */
static abi_long do_bsd_freebsd11_mknod(abi_long arg1, abi_long arg2, abi_long arg3)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(syscall(SYS_freebsd11_mknod, p, arg2, arg3));
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* pre-ino64 mknodat(2) */
static abi_long do_bsd_freebsd11_mknodat(abi_long
 arg1, abi_long arg2,
       abi_long arg3, abi_long arg4)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(syscall(SYS_freebsd11_mknodat, arg1, p, arg3, arg4));
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* post-ino64 mknodat(2) */
static abi_long do_bsd_mknodat(void *cpu_env, abi_long arg1,
       abi_long arg2, abi_long arg3, abi_long arg4, abi_long arg5,
       abi_long arg6)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
      /* 32-bit arch's use two 32 registers for 64 bit return value */
   if (regpairs_aligned(cpu_env) != 0) {
       ret = get_errno(mknodat(arg1, p, arg3, target_arg64(arg5, arg6)));
   } else {
       ret = get_errno(mknodat(arg1, p, arg3, target_arg64(arg4, arg5)));
   }
   UNLOCK_PATH(p, arg2);

   return ret;
```

```
}

/* chown(2) */
static abi_long do_bsd_chown(abi_long arg1, abi_long arg2, abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(chown(p, arg2, arg3)); /* XXX
 path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchown(2) */
static abi_long do_bsd_fchown(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  return get_errno(fchown(arg1, arg2, arg3));
}

/* lchown(2) */
static abi_long do_bsd_lchown(abi_long arg1, abi_long arg2,
      abi_long arg3)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg1);
  ret = get_errno(lchown(p, arg2, arg3)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg1);

  return ret;
}

/* fchownat(2) */
static abi_long do_bsd_fchownat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5)
{
  abi_long ret;
  void *p;

  LOCK_PATH(p, arg2);
  ret = get_errno(fchownat(arg1, p, arg3, arg4, arg5)); /* XXX path(p)? */
  UNLOCK_PATH(p, arg2);
```

```
   return ret;
}

/* chflags(2) */
static abi_long do_bsd_chflags(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(chflags(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p,
 arg1);

   return ret;
}

/* lchflags(2) */
static abi_long do_bsd_lchflags(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(lchflags(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* fchflags(2) */
static abi_long do_bsd_fchflags(abi_long arg1, abi_long arg2)
{
   return get_errno(fchflags(arg1, arg2));
}

/* chroot(2) */
static abi_long do_bsd_chroot(abi_long arg1)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(chroot(p)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}
```

```
/* flock(2) */
static abi_long do_bsd_flock(abi_long arg1, abi_long arg2)
{
   return get_errno(flock(arg1, arg2));
}

/* mkfifo(2) */
static abi_long do_bsd_mkfifo(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(mkfifo(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* mkfifoat(2) */
static
 abi_long do_bsd_mkfifoat(abi_long arg1, abi_long arg2,
       abi_long arg3)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg2);
   ret = get_errno(mkfifoat(arg1, p, arg3));
   UNLOCK_PATH(p, arg2);

   return ret;
}

/* pathconf(2) */
static abi_long do_bsd_pathconf(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(pathconf(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}
```

```
/* lpathconf(2) */
static abi_long do_bsd_lpathconf(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(lpathconf(p, arg2)); /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

/* fpathconf(2) */
static abi_long do_bsd_fpathconf(abi_long arg1, abi_long arg2)
{
   return get_errno(fpathconf(arg1, arg2));
}

/* undelete(2) */
static abi_long do_bsd_undelete(abi_long arg1)
{
   abi_long ret;
   void *p;

   LOCK_PATH(p, arg1);
   ret = get_errno(undelete(p));
 /* XXX path(p)? */
   UNLOCK_PATH(p, arg1);

   return ret;
}

#endif /* BSD_FILE_H */
```

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```
TARGET_ARCH=arm
TARGET_XML_FILES= gdb-xml/arm-core.xml gdb-xml/arm-vfp.xml gdb-xml/arm-vfp3.xml gdb-xml/arm-vfp-sysregs.xml gdb-xml/arm-neon.xml gdb-xml/arm-m-profile.xml gdb-xml/arm-m-profile-mve.xml
/*
*  NetBSD thread dependent code and definitions
*
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*/

#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"

#endif /* TARGET_OS_THREAD_H */
/*
*  i386 cpu init and loop
*
*
```

```
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*/

#ifndef TARGET_ARCH_CPU_H
#define TARGET_ARCH_CPU_H

#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu32"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
  uint64_t *gdt_table;

  env->cr[0] = CR0_PG_MASK | CR0_WP_MASK
| CR0_PE_MASK;
  env->hflags |= HF_PE_MASK | HF_CPL_MASK;
  if (env->features[FEAT_1_EDX] & CPUID_SSE) {
      env->cr[4] |= CR4_OSFXSR_MASK;
      env->hflags |= HF_OSFXSR_MASK;
  }

  /* flags setup : we activate the IRQs by default as in user mode */
  env->eflags |= IF_MASK;

  /* register setup */
  env->regs[R_EAX] = regs->eax;
  env->regs[R_EBX] = regs->ebx;
  env->regs[R_ECX] = regs->ecx;
  env->regs[R_EDX] = regs->edx;
  env->regs[R_ESI] = regs->esi;
  env->regs[R_EDI] = regs->edi;
  env->regs[R_EBP] = regs->ebp;
  env->regs[R_ESP] = regs->esp;
  env->eip = regs->eip;
```

```
 /* interrupt setup */
 env->idt.limit = 255;

 env->idt.base = target_mmap(0, sizeof(uint64_t) * (env->idt.limit + 1),
    PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
 bsd_i386_set_idt_base(env->idt.base);
 bsd_i386_set_idt(0, 0);
 bsd_i386_set_idt(1, 0);
 bsd_i386_set_idt(2, 0);
 bsd_i386_set_idt(3, 3);
 bsd_i386_set_idt(4,
3);
 bsd_i386_set_idt(5, 0);
 bsd_i386_set_idt(6, 0);
 bsd_i386_set_idt(7, 0);
 bsd_i386_set_idt(8, 0);
 bsd_i386_set_idt(9, 0);
 bsd_i386_set_idt(10, 0);
 bsd_i386_set_idt(11, 0);
 bsd_i386_set_idt(12, 0);
 bsd_i386_set_idt(13, 0);
 bsd_i386_set_idt(14, 0);
 bsd_i386_set_idt(15, 0);
 bsd_i386_set_idt(16, 0);
 bsd_i386_set_idt(17, 0);
 bsd_i386_set_idt(18, 0);
 bsd_i386_set_idt(19, 0);
 bsd_i386_set_idt(0x80, 3);

 /* segment setup */
 env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
       PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
 env->gdt.limit = sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
 gdt_table = g2h_untagged(env->gdt.base);

 bsd_i386_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
       DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
       (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

 bsd_i386_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
       (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

 cpu_x86_load_seg(env, R_CS, __USER_CS);
 cpu_x86_load_seg(env, R_SS, __USER_DS);
 cpu_x86_load_seg(env, R_DS, __USER_DS);
 cpu_x86_load_seg(env, R_ES, __USER_DS);
```

```
    cpu_x86_load_seg(env, R_FS, __USER_DS);
    cpu_x86_load_seg(env, R_GS, __USER_DS);
    /* This hack makes Wine work... */
    env->segs[R_FS].selector = 0;
}

static inline void target_cpu_loop(CPUX86State *env)
{
    CPUState *cs = env_cpu(env);
    int trapnr;
    abi_ulong pc;
    /* target_siginfo_t info; */

    for (;;) {
        cpu_exec_start(cs);
        trapnr = cpu_exec(cs);
        cpu_exec_end(cs);
        process_queued_cpu_work(cs);

        switch (trapnr) {
        case 0x80: {
            /* syscall from int $0x80 */
            abi_ulong params = (abi_ulong) env->regs[R_ESP] +
                sizeof(int32_t);
            int32_t syscall_nr = env->regs[R_EAX];
             int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

            if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
                get_user_s32(syscall_nr, params);
                params += sizeof(int32_t);
            } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
                get_user_s32(syscall_nr, params);
                params += sizeof(int64_t);
            }
            get_user_s32(arg1, params);
            params += sizeof(int32_t);
            get_user_s32(arg2, params);
            params += sizeof(int32_t);
            get_user_s32(arg3, params);
            params += sizeof(int32_t);
            get_user_s32(arg4, params);
            params += sizeof(int32_t);
            get_user_s32(arg5, params);
            params += sizeof(int32_t);
            get_user_s32(arg6, params);
            params += sizeof(int32_t);
            get_user_s32(arg7, params);
            params += sizeof(int32_t);
```

```
            get_user_s32(arg8, params);

        env->regs[R_EAX] = do_freebsd_syscall(env,
                                              syscall_nr,
                                              arg1,
                                              arg2,
                                              arg3,
                                              arg4,
                                              arg5,
                                              arg6,
                                              arg7,
                                              arg8);
            }
            if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
                env->regs[R_EAX] = -env->regs[R_EAX];
                env->eflags |= CC_C;
            } else {
                env->eflags &= ~CC_C;
            }
            break;

        case EXCP_SYSCALL:
            /* doesn't do anything */
            break;

        case EXCP_INTERRUPT:
            /* just indicate that signals should be handled
 asap */
            break;

        case EXCP_ATOMIC:
            cpu_exec_step_atomic(cs);
            break;

        default:
            pc = env->segs[R_CS].base + env->eip;
            fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                    "aborting\n", (long)pc, trapnr);
            abort();
        }
        process_pending_signals(env);
    }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
{
    if (newsp) {
        env->regs[R_ESP] = newsp;
```

```
  }
  env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *env)
{
  cpu_reset(env_cpu(env));
}

#endif /* TARGET_ARCH_CPU_H */
```

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```
/*
*  arm sysarch() system call emulation
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*/

#ifndef TARGET_ARCH_SYSARCH_H
#define TARGET_ARCH_SYSARCH_H

#include "target_syscall.h"
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUARMState *env, int op,
      abi_ulong parms)
{
  int ret = 0;

  switch (op) {
```

```
 case TARGET_FREEBSD_ARM_SYNC_ICACHE:
   case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
       break;

   case TARGET_FREEBSD_ARM_SET_TP:
       target_cpu_set_tls(env, parms);
       break;

   case TARGET_FREEBSD_ARM_GET_TP:
       ret = target_cpu_get_tls(env);
       break;

   default:
       ret = -TARGET_EINVAL;
       break;
   }
   return ret;
}

static inline void do_freebsd_arch_print_sysarch(
       const struct syscallname *name, abi_long arg1, abi_long arg2,
       abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

   switch (arg1) {
   case TARGET_FREEBSD_ARM_SYNC_ICACHE:
       gemu_log("%s(ARM_SYNC_ICACHE, ...)", name->name);
       break;

   case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
       gemu_log("%s(ARM_DRAIN_WRITEBUF, ...)", name->name);
       break;

   case TARGET_FREEBSD_ARM_SET_TP:
       gemu_log("%s(ARM_SET_TP, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
       break;

   case TARGET_FREEBSD_ARM_GET_TP:
       gemu_log("%s(ARM_GET_TP,
 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
       break;

   default:
       gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
   }
}

#endif /* TARGET_ARCH_SYSARCH_H */
```

```
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_getpid      20
#define
 TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
```

```
#define TARGET_NETBSD_NR_compat_43_stat43    38
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe        42
#define TARGET_NETBSD_NR_getegid
    43
#define TARGET_NETBSD_NR_profil      44
#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13     48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct        51
#define TARGET_NETBSD_NR_compat_13_sigpending13      52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13     53
#define TARGET_NETBSD_NR_ioctl       54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke      56
#define TARGET_NETBSD_NR_symlink     57
#define TARGET_NETBSD_NR_readlink    58
#define TARGET_NETBSD_NR_execve      59
#define TARGET_NETBSD_NR_umask       60
#define TARGET_NETBSD_NR_chroot      61
#define TARGET_NETBSD_NR_compat_43_fstat43   62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo      63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize
  64
#define TARGET_NETBSD_NR_compat_12_msync     65
#define TARGET_NETBSD_NR_vfork       66
#define TARGET_NETBSD_NR_sbrk        69
#define TARGET_NETBSD_NR_sstk        70
#define TARGET_NETBSD_NR_compat_43_ommap     71
#define TARGET_NETBSD_NR_vadvise     72
#define TARGET_NETBSD_NR_munmap      73
#define TARGET_NETBSD_NR_mprotect    74
#define TARGET_NETBSD_NR_madvise     75
#define TARGET_NETBSD_NR_mincore     78
#define TARGET_NETBSD_NR_getgroups   79
#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp     81
#define TARGET_NETBSD_NR_setpgid     82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait     84
#define TARGET_NETBSD_NR_compat_12_oswapon   85
#define TARGET_NETBSD_NR_getitimer   86
```

```
#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize    89
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl
  92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_oaccept   99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec   108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage
  117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
#define TARGET_NETBSD_NR_setregid    127
#define TARGET_NETBSD_NR_rename      128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate        130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mkfifo      132
#define TARGET_NETBSD_NR_sendto      133
#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair  135
#define TARGET_NETBSD_NR_mkdir       136
#define TARGET_NETBSD_NR_rmdir       137
```

```
#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername      141
#define TARGET_NETBSD_NR_compat_43_ogethostid
        142
#define TARGET_NETBSD_NR_compat_43_osethostid        143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit        144
#define TARGET_NETBSD_NR_compat_43_osetrlimit        145
#define TARGET_NETBSD_NR_compat_43_okillpg   146
#define TARGET_NETBSD_NR_setsid      147
#define TARGET_NETBSD_NR_quotactl    148
#define TARGET_NETBSD_NR_compat_43_oquota    149
#define TARGET_NETBSD_NR_compat_43_ogetsockname      150
#define TARGET_NETBSD_NR_nfssvc      155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries    156
#define TARGET_NETBSD_NR_compat_20_statfs    157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_compat_30_getfh     161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname    162
#define TARGET_NETBSD_NR_compat_09_osetdomainname    163
#define TARGET_NETBSD_NR_compat_09_ouname    164
#define TARGET_NETBSD_NR_sysarch     165
#define TARGET_NETBSD_NR_compat_10_osemsys   169
#define TARGET_NETBSD_NR_compat_10_omsgsys   170
#define
 TARGET_NETBSD_NR_compat_10_oshmsys   171
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime       175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
#define TARGET_NETBSD_NR_seteuid     183
#define TARGET_NETBSD_NR_lfs_bmapv   184
#define TARGET_NETBSD_NR_lfs_markv   185
#define TARGET_NETBSD_NR_lfs_segclean        186
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#define TARGET_NETBSD_NR_compat_12_stat12    188
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References

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```
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
/*
*  i386 thread support
*
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*/

#ifndef TARGET_ARCH_THREAD_H
#define TARGET_ARCH_THREAD_H

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
   abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
   /* XXX */
}

static
 inline void target_thread_init(struct target_pt_regs *regs,
       struct image_info *infop)
{
   regs->esp = infop->start_stack;
   regs->eip = infop->entry;
```

```
  /*
   * SVR4/i386 ABI (pages 3-31, 3-32) says that when the program starts %edx
   * contains a pointer to a function which might be registered using
   * `atexit'.  This provides a mean for the dynamic linker to call DT_FINI
   * functions for shared libraries that have been loaded before the code
   * runs.
   *
   * A value of 0 tells we have no such handler.
   */
  regs->edx = 0;
}

#endif /* TARGET_ARCH_THREAD_H */
/*
*  process related system call shims and definitions
*
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*/

#ifndef BSD_USER_FREEBSD_OS_PROC_H
#define BSD_USER_FREEBSD_OS_PROC_H

#include <sys/param.h>
#include <sys/procctl.h>
#include <sys/signal.h>
#include <sys/types.h>
#include <sys/procdesc.h>
#include <sys/wait.h>
#include <unistd.h>

#include
 "target_arch_cpu.h"

pid_t safe_wait4(pid_t wpid, int *status, int options, struct rusage *rusage);
```

```
pid_t safe_wait6(idtype_t idtype, id_t id, int *status, int options,
   struct __wrusage *wrusage, siginfo_t *infop);

extern int __setugid(int flag);

/* execve(2) */
static inline abi_long do_freebsd_execve(abi_ulong path_or_fd, abi_ulong argp,
       abi_ulong envp)
{

   return freebsd_exec_common(path_or_fd, argp, envp, 0);
}

/* fexecve(2) */
static inline abi_long do_freebsd_fexecve(abi_ulong path_or_fd, abi_ulong argp,
       abi_ulong envp)
{

   return freebsd_exec_common(path_or_fd, argp, envp, 1);
}

/* wait4(2) */
static inline abi_long do_freebsd_wait4(abi_long arg1, abi_ulong target_status,
       abi_long arg3, abi_ulong target_rusage)
{
   abi_long ret;
   int status;
   struct rusage rusage, *rusage_ptr = NULL;

   if (target_rusage) {
       rusage_ptr = &rusage;
   }
   ret = get_errno(safe_wait4(arg1, &status, arg3, rusage_ptr));

   if (ret < 0)
  {
       return ret;
   }
   if (target_status != 0) {
       status = host_to_target_waitstatus(status);
       if (put_user_s32(status, target_status) != 0) {
           return -TARGET_EFAULT;
       }
   }
   if (target_rusage != 0) {
       host_to_target_rusage(target_rusage, &rusage);
   }
   return ret;
```

```
}

/* wait6(2) */
static inline abi_long do_freebsd_wait6(void *cpu_env, abi_long idtype,
   abi_long id1, abi_long id2,
   abi_ulong target_status, abi_long options, abi_ulong target_wrusage,
   abi_ulong target_infop, abi_ulong pad1)
{
   abi_long ret;
   int status;
   struct __wrusage wrusage, *wrusage_ptr = NULL;
   siginfo_t info;
   void *p;

   if (regpairs_aligned(cpu_env) != 0) {
       /* printf("shifting args\n"); */
       /* 64-bit id is aligned, so shift all the arguments over by one */
       id1 = id2;
       id2 = target_status;
       target_status = options;
       options = target_wrusage;
       target_wrusage = target_infop;

     target_infop = pad1;
   }

   if (target_wrusage) {
       wrusage_ptr = &wrusage;
   }
   ret = get_errno(safe_wait6(idtype, target_arg64(id1, id2),
                              &status, options, wrusage_ptr, &info));

   if (ret < 0) {
       return ret;
   }
   if (target_status != 0) {
       status = host_to_target_waitstatus(status);
       if (put_user_s32(status, target_status) != 0) {
           return -TARGET_EFAULT;
       }
   }
   if (target_wrusage != 0) {
       host_to_target_wrusage(target_wrusage, &wrusage);
   }
   if (target_infop != 0) {
       p = lock_user(VERIFY_WRITE, target_infop, sizeof(target_siginfo_t), 0);
       if (p == NULL) {
           return -TARGET_EFAULT;
```

```
        }
        host_to_target_siginfo(p, &info);
        unlock_user(p, target_infop, sizeof(target_siginfo_t));
    }
    return ret;
}

/* setloginclass(2) */
static inline abi_long do_freebsd_setloginclass(abi_ulong arg1)
{
    abi_long ret;
    void *p;

    p = lock_user_string(arg1);
     if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(setloginclass(p));
    unlock_user(p, arg1, 0);

    return ret;
}

/* getloginclass(2) */
static inline abi_long do_freebsd_getloginclass(abi_ulong arg1, abi_ulong arg2)
{
    abi_long ret;
    void *p;

    p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
    if (p == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(getloginclass(p, arg2));
    unlock_user(p, arg1, arg2);

    return ret;
}

/* pdgetpid(2) */
static inline abi_long do_freebsd_pdgetpid(abi_long fd, abi_ulong target_pidp)
{
    abi_long ret;
    pid_t pid;

    ret = get_errno(pdgetpid(fd, &pid));
    if (!is_error(ret)) {
        if (put_user_u32(pid, target_pidp)) {
```

```
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* undocumented __setugid */
static inline abi_long do_freebsd___setugid(abi_long arg1)
{
    return -TARGET_ENOSYS;
}

/* fork(2) */
static inline abi_long do_freebsd_fork(void
 *cpu_env)
{
    abi_long ret;
    abi_ulong child_flag;

    fork_start();
    ret = fork();
    if (ret == 0) {
        /* child */
        child_flag = 1;
        target_cpu_clone_regs(cpu_env, 0);
    } else {
        /* parent */
        child_flag = 0;
    }

    /*
     * The fork system call sets a child flag in the second return
     * value: 0 for parent process, 1 for child process.
     */
    set_second_rval(cpu_env, child_flag);

    fork_end(child_flag);

    return ret;
}

/* vfork(2) */
static inline abi_long do_freebsd_vfork(void *cpu_env)
{
    return do_freebsd_fork(cpu_env);
}

/* rfork(2) */
```

```
static inline abi_long do_freebsd_rfork(void *cpu_env, abi_long flags)
{
  abi_long ret;
  abi_ulong child_flag;

  /*
   * XXX We need to handle RFMEM here, as well.  Neither are safe to execute
   * as-is on x86 hosts because they'll split memory but not the stack,
   * wreaking havoc on host architectures that use the stack to store the
   * return address as
 both threads try to pop it off.  Rejecting RFSPAWN
   * entirely for now is ok, the only consumer at the moment is posix_spawn
   * and it will fall back to classic vfork(2) if we return EINVAL.
   */
  if ((flags & TARGET_RFSPAWN) != 0) {
      return -TARGET_EINVAL;
  }
  fork_start();
  ret = rfork(flags);
  if (ret == 0) {
      /* child */
      child_flag = 1;
      target_cpu_clone_regs(cpu_env, 0);
  } else {
      /* parent */
      child_flag = 0;
  }

  /*
   * The fork system call sets a child flag in the second return
   * value: 0 for parent process, 1 for child process.
   */
  set_second_rval(cpu_env, child_flag);
  fork_end(child_flag);

  return ret;

}

/* pdfork(2) */
static inline abi_long do_freebsd_pdfork(void *cpu_env, abi_ulong target_fdp,
      abi_long flags)
{
  abi_long ret;
  abi_ulong child_flag;
  int fd;

  fork_start();
```

```
    ret = pdfork(&fd, flags);
    if (ret == 0) {
        /* child */

    child_flag = 1;
        target_cpu_clone_regs(cpu_env, 0);
    } else {
        /* parent */
        child_flag = 0;
        if (put_user_s32(fd, target_fdp)) {
            return -TARGET_EFAULT;
        }
    }

    /*
     * The fork system call sets a child flag in the second return
     * value: 0 for parent process, 1 for child process.
     */
    set_second_rval(cpu_env, child_flag);
    fork_end(child_flag);

    return ret;
}

#endif /* BSD_USER_FREEBSD_OS_PROC_H */
/*
*  i386 system call definitions
*
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

/* default linux values for the selectors */
#define __USER_CS (0x23)
#define __USER_DS (0x2B)
```

```
struct target_pt_regs {
 long ebx;
 long ecx;
 long edx;
 long esi;
 long edi;
 long ebp;
 long eax;
 int  xds;
 int  xes;
 long orig_eax;
 long eip;
 int
  xcs;
 long eflags;
 long esp;
 int  xss;
};

/* ioctls */

#define TARGET_LDT_ENTRIES      8192
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES            9
#define TARGET_GDT_ENTRY_TLS_ENTRIES   3
#define TARGET_GDT_ENTRY_TLS_MIN       6
#define TARGET_GDT_ENTRY_TLS_MAX       (TARGET_GDT_ENTRY_TLS_MIN +
TARGET_GDT_ENTRY_TLS_ENTRIES - 1)

struct target_modify_ldt_ldt_s {
   unsigned int  entry_number;
   abi_ulong base_addr;
   unsigned int limit;
   unsigned int flags;
};

/* vm86 defines */

#define TARGET_BIOSSEG  0x0f000

#define TARGET_CPU_086  0
#define TARGET_CPU_186  1
#define TARGET_CPU_286  2
#define TARGET_CPU_386  3
#define TARGET_CPU_486  4
#define TARGET_CPU_586  5
```

```
#define TARGET_VM86_SIGNAL 0 /* return due to signal */
#define TARGET_VM86_UNKNOWN 1 /* unhandled GP fault - IO-instruction or similar */
#define TARGET_VM86_INTx 2 /* int3/int x instruction (ARG = x) */
#define TARGET_VM86_STI 3 /* sti/popf/iret instruction enabled virtual interrupts */

/*
 * Additional return values when invoking new vm86()
*/
#define TARGET_VM86_PICRETURN 4 /* return due to pending PIC request */
#define TARGET_VM86_TRAP 6 /* return due to DOS-debugger request */

/*
* function codes when invoking new vm86()
*/
#define TARGET_VM86_PLUS_INSTALL_CHECK 0
#define TARGET_VM86_ENTER  1
#define TARGET_VM86_ENTER_NO_BYPASS 2
#define TARGET_VM86_REQUEST_IRQ 3
#define TARGET_VM86_FREE_IRQ  4
#define TARGET_VM86_GET_IRQ_BITS 5
#define TARGET_VM86_GET_AND_RESET_IRQ 6

/*
* This is the stack-layout seen by the user space program when we have
* done a translation of "SAVE_ALL" from vm86 mode. The real kernel layout
* is 'kernel_vm86_regs' (see below).
*/

struct target_vm86_regs {
/*
* normal regs, with special meaning for the segment descriptors..
*/
 abi_long ebx;
 abi_long ecx;
 abi_long edx;
 abi_long esi;
 abi_long edi;
 abi_long ebp;
 abi_long eax;
 abi_long __null_ds;
 abi_long __null_es;
 abi_long __null_fs;
 abi_long __null_gs;
 abi_long orig_eax;
 abi_long
 eip;
 unsigned short cs, __csh;
```

```
 abi_long eflags;
 abi_long esp;
 unsigned short ss, __ssh;
/*
* these are specific to v86 mode:
*/
 unsigned short es, __esh;
 unsigned short ds, __dsh;
 unsigned short fs, __fsh;
 unsigned short gs, __gsh;
};

struct target_revectored_struct {
 abi_ulong __map[8];   /* 256 bits */
};

struct target_vm86_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
};

/*
* flags masks
*/
#define TARGET_VM86_SCREEN_BITMAP 0x0001

struct target_vm86plus_info_struct {
       abi_ulong flags;
#define TARGET_force_return_for_pic (1 << 0)
#define TARGET_vm86dbg_active       (1 << 1)  /* for debugger */
#define TARGET_vm86dbg_TFpendig     (1 << 2)  /* for debugger */
#define TARGET_is_vm86pus           (1 << 31) /* for vm86 internal use */
 unsigned char vm86dbg_intxxtab[32];   /* for debugger */
};

struct
 target_vm86plus_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
 struct target_vm86plus_info_struct vm86plus;
```

```
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
   /* I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
   /* xxxxx */
#define TARGET_FREEBSD_I386_VM86 6
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10


#define UNAME_MACHINE "i386"
#define TARGET_HW_MACHINE UNAME_MACHINE
#define TARGET_HW_MACHINE_ARCH UNAME_MACHINE

#endif /* TARGET_SYSCALL_H */
/*
*  OpenBSD host dependent code and definitions
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*/

#ifndef HOST_OS_H
#define HOST_OS_H

#define HOST_DEFAULT_BSD_TYPE target_openbsd

#endif /* HOST_OS_H */
```

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Version 2, June 1991

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```
/*
*  stat related system call shims and definitions
*
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*/

#ifndef BSD_USER_FREEBSD_OS_STAT_H
#define BSD_USER_FREEBSD_OS_STAT_H

int freebsd11_stat(const char *path, struct freebsd11_stat *stat);
__sym_compat(stat, freebsd11_stat, FBSD_1.0);
int freebsd11_lstat(const char *path, struct freebsd11_stat
 *stat);
__sym_compat(lstat, freebsd11_lstat, FBSD_1.0);
int freebsd11_fstat(int fd, struct freebsd11_stat *stat);
__sym_compat(fstat, freebsd11_fstat, FBSD_1.0);
int freebsd11_fstatat(int fd, const char *path, struct freebsd11_stat *stat,
```

```
    int flag);
__sym_compat(fstatat, freebsd11_fstatat, FBSD_1.1);

int freebsd11_fhstat(const fhandle_t *fhandle, struct freebsd11_stat *stat);
__sym_compat(fhstat, freebsd11_fhstat, FBSD_1.0);
int freebsd11_getfsstat(struct freebsd11_statfs *buf, long bufsize, int mode);
__sym_compat(getfsstat, freebsd11_getfsstat, FBSD_1.0);
int freebsd11_fhstatfs(const fhandle_t *fhandle, struct freebsd11_statfs * buf);
__sym_compat(fhstatfs, freebsd11_fhstatfs, FBSD_1.0);
int freebsd11_statfs(const char *path, struct freebsd11_statfs *buf);
__sym_compat(statfs, freebsd11_statfs, FBSD_1.0);
int freebsd11_fstatfs(int fd, struct freebsd11_statfs *buf);
__sym_compat(fstatfs, freebsd11_fstatfs, FBSD_1.0);

ssize_t freebsd11_getdirentries(int fd, char *buf, size_t
 nbytes, off_t *basep);
__sym_compat(getdirentries, freebsd11_getdirentries, FBSD_1.0);
ssize_t freebsd11_getdents(int fd, char *buf, size_t nbytes);
__sym_compat(getdents, freebsd11_getdents, FBSD_1.0);

/* undocumented nstat system calls */
int freebsd11_nstat(const char *path, struct freebsd11_stat *sb);
__sym_compat(nstat, freebsd11_nstat, FBSD_1.0);
int freebsd11_nlstat(const char *path, struct freebsd11_stat *sb);
__sym_compat(nlstat, freebsd11_nlstat, FBSD_1.0);
int freebsd11_nfstat(int fd, struct freebsd11_stat *sb);
__sym_compat(nfstat, freebsd11_nfstat, FBSD_1.0);

/* stat(2) */
static inline abi_long do_freebsd11_stat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_stat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
      ret = h2t_freebsd11_stat(arg2, &st);
  }
  return ret;
}

/* lstat(2) */
static inline abi_long do_freebsd11_lstat(abi_long arg1, abi_long
 arg2)
{
```

```
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_lstat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
      ret = h2t_freebsd11_stat(arg2, &st);
  }
  return ret;
}

/* fstat(2) */
static inline abi_long do_freebsd11_fstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  struct freebsd11_stat st;

  ret = get_errno(freebsd11_fstat(arg1, &st));
  if (!is_error(ret))  {
      ret = h2t_freebsd11_stat(arg2, &st);
  }
  return ret;
}

/* fstat(2) */
static inline abi_long do_freebsd_fstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  struct stat st;

  ret = get_errno(fstat(arg1, &st));
  if (!is_error(ret))  {
      ret = h2t_freebsd_stat(arg2, &st);
  }
  return ret;
}

/* fstatat(2) */
static inline abi_long do_freebsd11_fstatat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat
 st;
```

```
  LOCK_PATH(p, arg2);
  ret = get_errno(freebsd11_fstatat(arg1, p, &st, arg4));
  UNLOCK_PATH(p, arg2);
  if (!is_error(ret) && arg3) {
      ret = h2t_freebsd11_stat(arg3, &st);
  }
  return ret;
}

/* fstatat(2) */
static inline abi_long do_freebsd_fstatat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4)
{
  abi_long ret;
  void *p;
  struct stat st;

  LOCK_PATH(p, arg2);
  ret = get_errno(fstatat(arg1, p, &st, arg4));
  UNLOCK_PATH(p, arg2);
  if (!is_error(ret) && arg3) {
      ret = h2t_freebsd_stat(arg3, &st);
  }
  return ret;
}

/* undocumented nstat(char *path, struct nstat *ub) syscall */
static abi_long do_freebsd11_nstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_nstat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
      ret = h2t_freebsd11_nstat(arg2, &st);
  }
  return ret;
}

/*
 undocumented nfstat(int fd, struct nstat *sb) syscall */
static abi_long do_freebsd11_nfstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  struct freebsd11_stat st;
```

```
  ret = get_errno(freebsd11_nfstat(arg1, &st));
  if (!is_error(ret))  {
      ret = h2t_freebsd11_nstat(arg2, &st);
  }
  return ret;
}

/* undocumented nlstat(char *path, struct nstat *ub) syscall */
static abi_long do_freebsd11_nlstat(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  struct freebsd11_stat st;

  LOCK_PATH(p, arg1);
  ret = get_errno(freebsd11_nlstat(path(p), &st));
  UNLOCK_PATH(p, arg1);
  if (!is_error(ret)) {
      ret = h2t_freebsd11_nstat(arg2, &st);
  }
  return ret;
}

/* getfh(2) */
static abi_long do_freebsd_getfh(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  fhandle_t host_fh;

  LOCK_PATH(p, arg1);
  ret = get_errno(getfh(path(p), &host_fh));
  UNLOCK_PATH(p, arg1);
  if (is_error(ret)) {
      return ret;

  }
  return h2t_freebsd_fhandle(arg2, &host_fh);
}

/* lgetfh(2) */
static inline abi_long do_freebsd_lgetfh(abi_long arg1, abi_long arg2)
{
  abi_long ret;
  void *p;
  fhandle_t host_fh;
```

```
    LOCK_PATH(p, arg1);
    ret = get_errno(lgetfh(path(p), &host_fh));
    UNLOCK_PATH(p, arg1);
    if (is_error(ret)) {
        return ret;
    }
    return h2t_freebsd_fhandle(arg2, &host_fh);
}

/* fhopen(2) */
static inline abi_long do_freebsd_fhopen(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    fhandle_t host_fh;

    ret = t2h_freebsd_fhandle(&host_fh, arg1);
    if (is_error(ret)) {
        return ret;
    }

    return get_errno(fhopen(&host_fh, arg2));
}

/* fhstat(2) */
static inline abi_long do_freebsd11_fhstat(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    fhandle_t host_fh;
    struct freebsd11_stat host_sb;

    ret = t2h_freebsd_fhandle(&host_fh, arg1);
    if (is_error(ret)) {
        return ret;
    }
    ret = get_errno(freebsd11_fhstat(&host_fh, &host_sb));
     if (is_error(ret)) {
        return ret;
    }
    return h2t_freebsd11_stat(arg2, &host_sb);
}

/* fhstat(2) */
static inline abi_long do_freebsd_fhstat(abi_long arg1, abi_long arg2)
{
    abi_long ret;
    fhandle_t host_fh;
    struct stat host_sb;
```

```
  ret = t2h_freebsd_fhandle(&host_fh, arg1);
  if (is_error(ret)) {
      return ret;
  }
  ret = get_errno(fhstat(&host_fh, &host_sb));
  if (is_error(ret)) {
      return ret;
  }
  return h2t_freebsd_stat(arg2, &host_sb);
}

/* fhstatfs(2) */
static inline abi_long do_freebsd11_fhstatfs(abi_ulong target_fhp_addr,
      abi_ulong target_stfs_addr)
{
  abi_long ret;
  fhandle_t host_fh;
  struct freebsd11_statfs host_stfs;

  ret = t2h_freebsd_fhandle(&host_fh, target_fhp_addr);
  if (is_error(ret)) {
      return ret;
  }
  ret = get_errno(freebsd11_fhstatfs(&host_fh, &host_stfs));
  if (is_error(ret)) {
      return ret;
  }
  return h2t_freebsd11_statfs(target_stfs_addr, &host_stfs);
}

/*
 fhstatfs(2) */
static inline abi_long do_freebsd_fhstatfs(abi_ulong target_fhp_addr,
      abi_ulong target_stfs_addr)
{
  abi_long ret;
  fhandle_t host_fh;
  struct statfs host_stfs;

  ret = t2h_freebsd_fhandle(&host_fh, target_fhp_addr);
  if (is_error(ret)) {
      return ret;
  }
  ret = get_errno(fhstatfs(&host_fh, &host_stfs));
  if (is_error(ret)) {
      return ret;
  }
  return h2t_freebsd_statfs(target_stfs_addr, &host_stfs);
```

```
}

/* statfs(2) */
static inline abi_long do_freebsd11_statfs(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;
   struct freebsd11_statfs host_stfs;

   LOCK_PATH(p, arg1);
   ret = get_errno(freebsd11_statfs(path(p), &host_stfs));
   UNLOCK_PATH(p, arg1);
   if (is_error(ret)) {
       return ret;
   }

   return h2t_freebsd11_statfs(arg2, &host_stfs);
}

/* statfs(2) */
static inline abi_long do_freebsd_statfs(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;
   struct statfs host_stfs;

    LOCK_PATH(p, arg1);
   ret = get_errno(statfs(path(p), &host_stfs));
   UNLOCK_PATH(p, arg1);
   if (is_error(ret)) {
       return ret;
   }

   return h2t_freebsd_statfs(arg2, &host_stfs);
}

/* fstatfs(2) */
static inline abi_long do_freebsd11_fstatfs(abi_long fd, abi_ulong target_addr)
{
   abi_long ret;
   struct freebsd11_statfs host_stfs;

   ret = get_errno(freebsd11_fstatfs(fd, &host_stfs));
   if (is_error(ret)) {
       return ret;
   }

   return h2t_freebsd11_statfs(target_addr, &host_stfs);
```

```
}

/* fstatfs(2) */
static inline abi_long do_freebsd_fstatfs(abi_long fd, abi_ulong target_addr)
{
   abi_long ret;
   struct statfs host_stfs;

   ret = get_errno(fstatfs(fd, &host_stfs));
   if (is_error(ret)) {
       return ret;
   }

   return h2t_freebsd_statfs(target_addr, &host_stfs);
}

/* getfsstat(2) */
static inline abi_long do_freebsd11_getfsstat(abi_ulong target_addr,
       abi_long bufsize, abi_long flags)
{
   abi_long ret;
   struct freebsd11_statfs
 *host_stfs;
   int count;
   long host_bufsize;

   count = bufsize / sizeof(struct target_freebsd11_statfs);

   /* if user buffer is NULL then return number of mounted FS's */
   if (target_addr == 0 || count == 0) {
       return get_errno(freebsd11_getfsstat(NULL, 0, flags));
   }

   /* XXX check count to be reasonable */
   host_bufsize = sizeof(struct freebsd11_statfs) * count;
   host_stfs = alloca(host_bufsize);
   if (!host_stfs) {
       return -TARGET_EINVAL;
   }

   ret = count = get_errno(freebsd11_getfsstat(host_stfs, host_bufsize, flags));
   if (is_error(ret)) {
       return ret;
   }

   while (count--) {
       if (h2t_freebsd11_statfs((target_addr +
                   (count * sizeof(struct target_freebsd11_statfs))),
```

```
                &host_stfs[count])) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* getfsstat(2) */
static inline abi_long do_freebsd_getfsstat(abi_ulong target_addr,
        abi_long
 bufsize, abi_long flags)
{
    abi_long ret;
    struct statfs *host_stfs;
    int count;
    long host_bufsize;

    count = bufsize / sizeof(struct target_statfs);

    /* if user buffer is NULL then return number of mounted FS's */
    if (target_addr == 0 || count == 0) {
        return get_errno(freebsd11_getfsstat(NULL, 0, flags));
    }

    /* XXX check count to be reasonable */
    host_bufsize = sizeof(struct statfs) * count;
    host_stfs = alloca(host_bufsize);
    if (!host_stfs) {
        return -TARGET_EINVAL;
    }

    ret = count = get_errno(getfsstat(host_stfs, host_bufsize, flags));
    if (is_error(ret)) {
        return ret;
    }

    while (count--) {
        if (h2t_freebsd_statfs((target_addr +
                    (count * sizeof(struct target_statfs))),
                &host_stfs[count])) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* getdents(2) */
static inline abi_long do_freebsd11_getdents(abi_long arg1,
```

```
        abi_ulong
 arg2, abi_long nbytes)
{
    abi_long ret;
    struct freebsd11_dirent *dirp;

    dirp = lock_user(VERIFY_WRITE, arg2, nbytes, 0);
    if (dirp == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(freebsd11_getdents(arg1, (char *)dirp, nbytes));
    if (!is_error(ret)) {
        struct freebsd11_dirent *de;
        int len = ret;
        int reclen;

        de = dirp;
        while (len > 0) {
            reclen = de->d_reclen;
            if (reclen > len) {
                return -TARGET_EFAULT;
            }
            de->d_reclen = tswap16(reclen);
            de->d_fileno = tswap32(de->d_fileno);
            len -= reclen;
        }
    }
    return ret;
}

/* getdirecentries(2) */
static inline abi_long do_freebsd11_getdirentries(abi_long arg1,
        abi_ulong arg2, abi_long nbytes, abi_ulong arg4)
{
    abi_long ret;
    struct freebsd11_dirent *dirp;
    long basep;

    dirp = lock_user(VERIFY_WRITE, arg2, nbytes, 0);
    if (dirp == NULL) {

   return -TARGET_EFAULT;
    }
    ret = get_errno(freebsd11_getdirentries(arg1, (char *)dirp, nbytes, &basep));
    if (!is_error(ret)) {
        struct freebsd11_dirent *de;
        int len = ret;
        int reclen;
```

```
        de = dirp;
        while (len > 0) {
            reclen = de->d_reclen;
            if (reclen > len) {
                return -TARGET_EFAULT;
            }
            de->d_reclen = tswap16(reclen);
            de->d_fileno = tswap32(de->d_fileno);
            len -= reclen;
            de = (struct freebsd11_dirent *)((void *)de + reclen);
        }
    }
    unlock_user(dirp, arg2, ret);
    if (arg4) {
        if (put_user(basep, arg4, abi_ulong)) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* getdirecentries(2) */
static inline abi_long do_freebsd_getdirentries(abi_long arg1,
        abi_ulong arg2, abi_long nbytes, abi_ulong arg4)
{
    abi_long ret;
    struct dirent *dirp;
    long basep;

    dirp = lock_user(VERIFY_WRITE, arg2,
 nbytes, 0);
    if (dirp == NULL) {
        return -TARGET_EFAULT;
    }
    ret = get_errno(getdirentries(arg1, (char *)dirp, nbytes, &basep));
    if (!is_error(ret)) {
        struct dirent *de;
        int len = ret;
        int reclen;

        de = dirp;
        while (len > 0) {
            reclen = de->d_reclen;
            if (reclen > len) {
                return -TARGET_EFAULT;
            }
            de->d_fileno = tswap64(de->d_fileno);
```

```
            de->d_off = tswap64(de->d_off);
            de->d_reclen = tswap16(de->d_reclen);
            de->d_namlen = tswap16(de->d_namlen);
            len -= reclen;
            de = (struct dirent *)((void *)de + reclen);
        }
    }
    unlock_user(dirp, arg2, ret);
    if (arg4) {
        if (put_user(basep, arg4, abi_ulong)) {
            return -TARGET_EFAULT;
        }
    }
    return ret;
}

/* fcntl(2) */
static inline abi_long do_freebsd_fcntl(abi_long arg1, abi_long arg2,
        abi_ulong arg3)
{
    abi_long ret;
     int host_cmd;
    struct flock fl;
    struct target_freebsd_flock *target_fl;

    host_cmd = target_to_host_fcntl_cmd(arg2);
    if (host_cmd < 0) {
        return host_cmd;
    }
    switch (arg2) {
    case TARGET_F_GETLK:
        if (!lock_user_struct(VERIFY_READ, target_fl, arg3, 1)) {
            return -TARGET_EFAULT;
        }
        __get_user(fl.l_type, &target_fl->l_type);
        __get_user(fl.l_whence, &target_fl->l_whence);
        __get_user(fl.l_start, &target_fl->l_start);
        __get_user(fl.l_len, &target_fl->l_len);
        __get_user(fl.l_pid, &target_fl->l_pid);
        __get_user(fl.l_sysid, &target_fl->l_sysid);
        unlock_user_struct(target_fl, arg3, 0);
        ret = get_errno(safe_fcntl(arg1, host_cmd, &fl));
        if (!is_error(ret)) {
            if (!lock_user_struct(VERIFY_WRITE, target_fl, arg3, 0)) {
                return -TARGET_EFAULT;
            }
            __put_user(fl.l_type, &target_fl->l_type);
            __put_user(fl.l_whence,
```

```
 &target_fl->l_whence);
            __put_user(fl.l_start, &target_fl->l_start);
            __put_user(fl.l_len, &target_fl->l_len);
            __put_user(fl.l_pid, &target_fl->l_pid);
            __put_user(fl.l_sysid, &target_fl->l_sysid);
            unlock_user_struct(target_fl, arg3, 1);
        }
        break;

    case TARGET_F_SETLK:
    case TARGET_F_SETLKW:
        if (!lock_user_struct(VERIFY_READ, target_fl, arg3, 1)) {
            return -TARGET_EFAULT;
        }
        __get_user(fl.l_type, &target_fl->l_type);
        __get_user(fl.l_whence, &target_fl->l_whence);
        __get_user(fl.l_start, &target_fl->l_start);
        __get_user(fl.l_len, &target_fl->l_len);
        __get_user(fl.l_pid, &target_fl->l_pid);
        __get_user(fl.l_sysid, &target_fl->l_sysid);
        unlock_user_struct(target_fl, arg3, 0);
        ret = get_errno(safe_fcntl(arg1, host_cmd, &fl));
        break;

    case TARGET_F_DUPFD:
    case TARGET_F_DUP2FD:
    case TARGET_F_GETOWN:

   case TARGET_F_SETOWN:
    case TARGET_F_GETFD:
    case TARGET_F_SETFD:
    case TARGET_F_GETFL:
    case TARGET_F_SETFL:
    case TARGET_F_READAHEAD:
    case TARGET_F_RDAHEAD:
    case TARGET_F_ADD_SEALS:
    case TARGET_F_GET_SEALS:
    default:
        ret = get_errno(safe_fcntl(arg1, host_cmd, arg3));
        break;
    }
    return ret;
}

#if defined(__FreeBSD_version) && __FreeBSD_version >= 1300080
extern int __realpathat(int fd, const char *path, char *buf, size_t size,
        int flags);
/* https://svnweb.freebsd.org/base?view=revision&revision=358172 */
```

```
/* no man page */
static inline abi_long do_freebsd_realpathat(abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5)
{
   abi_long ret;
   void *p, *b;

   LOCK_PATH(p, arg2);
   b = lock_user(VERIFY_WRITE, arg3, arg4, 0);
   if (b == NULL) {
      UNLOCK_PATH(p, arg2);
      return -TARGET_EFAULT;
   }

   ret = get_errno(__realpathat(arg1, p, b, arg4, arg5));
   UNLOCK_PATH(p, arg2);
    unlock_user(b, arg3, ret);

   return ret;
}
#endif

#endif /* BSD_USER_FREEBSD_OS_STAT_H */
```

GPL License Exception:

Even though U-Boot in general is covered by the GPL-2.0/GPL-2.0+,
this does *not* cover the so-called "standalone" applications that
use U-Boot services by means of the jump table provided by U-Boot
exactly for this purpose - this is merely considered normal use of
U-Boot, and does *not* fall under the heading of "derived work".

The header files "include/image.h" and "arch/*/include/asm/u-boot.h"
define interfaces to U-Boot. Including these (unmodified) header
files in another file is considered normal use of U-Boot, and does
not fall under the heading of "derived work".
-- Wolfgang Denk

```
/* XXX NetBSD dependent strace print functions */
/*
* Intel general target stuff that's common to all i386 details
*
* Copyright (c) 2022 M. Warner Losh <imp@bsdimp.com>
*
* SPDX-License-Identifier: GPL-2.0-or-later
*/

#ifndef TARGET_H
#define TARGET_H
```

```
/*
* arm EABI 'lumps' the registers for 64-bit args.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
  return true;
}

#endif /* TARGET_H */
```

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```
/*
*  FreeBSD siginfo related definitions
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*/

#ifndef TARGET_OS_SIGINFO_H
#define TARGET_OS_SIGINFO_H

#define TARGET_NSIG         128
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
```

```
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling
 */
typedef struct target_sigaltstack {
   abi_long    ss_sp;
   abi_ulong   ss_size;
   abi_long    ss_flags;
} target_stack_t;

typedef struct {
   uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t;

struct target_sigaction {
   abi_ulong   _sa_handler;
   int32_t     sa_flags;
   target_sigset_t sa_mask;
};

typedef union target_sigval {
   int32_t sival_int;
   abi_ulong sival_ptr;
   int32_t sigval_int;
   abi_ulong sigval_ptr;
} target_sigval_t;

typedef struct target_siginfo {
   int32_t si_signo;   /* signal number */
   int32_t si_errno;   /* errno association */
   int32_t si_code;    /* signal code */
   int32_t si_pid;     /* sending process */
   int32_t si_uid;     /* sender's ruid */
   int32_t si_status;  /* exit value */
   abi_ulong si_addr;  /* faulting instruction */
   union target_sigval si_value;   /* signal value */
   union {
       struct {
           int32_t _trapno;    /* machine specific trap code */
       } _fault;


  /* POSIX.1b timers */
       struct {
           int32_t _timerid;
           int32_t _overrun;
       } _timer;
```

```
        struct {
            int32_t _mqd;
        } _mesgp;

        /* SIGPOLL -- Not really generated in FreeBSD ??? */
        struct {
            int _band;  /* POLL_IN, POLL_OUT, POLL_MSG */
        } _poll;

        struct {
            int _mqd;
        } _mesgq;

        struct {
            /*
             * Syscall number for signals delivered as a result of system calls
             * denied by Capsicum.
             */
            int _syscall;
        } _capsicum;

        /* Spare for future growth */
        struct {
            abi_long __spare1__;
            int32_t  __spare2_[7];
        } __spare__;
    } _reason;
} target_siginfo_t;

struct target_sigevent {
    abi_int sigev_notify;
    abi_int sigev_signo;
    target_sigval_t sigev_value;
    union {
        abi_int _threadid;

        /*
         * The kernel (and thus QEMU) never looks at these;
          * they're only used as part of the ABI between a
         * userspace program and libc.
         */
        struct {
            abi_ulong _function;
            abi_ulong _attribute;
        } _sigev_thread;
        abi_ushort _kevent_flags;
        abi_long _pad[8];
    } _sigev_un;
```

```
};

#define target_si_signo     si_signo
#define target_si_code      si_code
#define target_si_errno     si_errno
#define target_si_addr      si_addr

/* SIGILL si_codes */
#define TARGET_ILL_ILLOPC   (1) /* Illegal opcode. */
#define TARGET_ILL_ILLOPN   (2) /* Illegal operand. */
#define TARGET_ILL_ILLADR   (3) /* Illegal addressing mode. */
#define TARGET_ILL_ILLTRP   (4) /* Illegal trap. */
#define TARGET_ILL_PRVOPC   (5) /* Privileged opcode. */
#define TARGET_ILL_PRVREG   (6) /* Privileged register. */
#define TARGET_ILL_COPROC   (7) /* Coprocessor error. */
#define TARGET_ILL_BADSTK   (8) /* Internal stack error. */

/* SIGSEGV si_codes */
#define TARGET_SEGV_MAPERR  (1) /* address not
 mapped to object */
#define TARGET_SEGV_ACCERR  (2) /* invalid permissions for mapped object */

/* SIGTRAP si_codes */
#define TARGET_TRAP_BRKPT   (1) /* process beakpoint */
#define TARGET_TRAP_TRACE   (2) /* process trace trap */

/* SIGBUS si_codes */
#define TARGET_BUS_ADRALN   (1)
#define TARGET_BUS_ADRERR   (2)
#define TARGET_BUS_OBJERR   (3)

/* SIGFPE codes */
#define TARGET_FPE_INTOVF   (1) /* Integer overflow. */
#define TARGET_FPE_INTDIV   (2) /* Integer divide by zero. */
#define TARGET_FPE_FLTDIV   (3) /* Floating point divide by zero. */
#define TARGET_FPE_FLTOVF   (4) /* Floating point overflow. */
#define TARGET_FPE_FLTUND   (5) /* Floating point underflow. */
#define TARGET_FPE_FLTRES   (6) /* Floating point inexact result. */
#define TARGET_FPE_FLTINV   (7) /* Invalid floating point operation. */
#define TARGET_FPE_FLTSUB   (8) /* Subscript out of range. */

#endif /* TARGET_OS_SIGINFO_H */
# See docs/devel/tracing.rst for syntax documentation.

# bsd-user/signal.c
user_setup_frame(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_setup_rt_frame(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_do_rt_sigreturn(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
```

```
user_do_sigreturn(void *env, uint64_t frame_addr) "env=%p frame_addr=0x%"PRIx64
user_dump_core_and_abort(void *env, int target_sig, int host_sig) "env=%p signal %d (host %d)"
user_handle_signal(void *env, int target_sig) "env=%p signal %d"
user_host_signal(void *env, int host_sig, int target_sig) "env=%p signal %d (target %d("
user_queue_signal(void *env, int target_sig) "env=%p signal %d"
/*
*  arm sysarch() system call emulation
*
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*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

/* Compare to arm/arm/locore.S ENTRY_NP(sigcode) */
static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{
  int i;
  uint32_t sys_exit
 = TARGET_FREEBSD_NR_exit;
  uint32_t sigtramp_code[] = {
  /* 1 */ 0xE1A0000D,                /* mov r0, sp */
  /* 2 */ 0xE2800000 + sigf_uc,       /* add r0, r0, #SIGF_UC */
  /* 3 */ 0xE59F700C,                /* ldr r7, [pc, #12] */
  /* 4 */ 0xEF000000 + sys_sigreturn,  /* swi (SYS_sigreturn) */
  /* 5 */ 0xE59F7008,                /* ldr r7, [pc, #8] */
  /* 6 */ 0xEF000000 + sys_exit,      /* swi (SYS_exit)*/
  /* 7 */ 0xEAFFFFFA,                /* b . -16 */
  /* 8 */ sys_sigreturn,
  /* 9 */ sys_exit
  };

  G_STATIC_ASSERT(sizeof(sigtramp_code) == TARGET_SZSIGCODE);
```

```
   for (i = 0; i < 9; i++) {
       tswap32s(&sigtramp_code[i]);
   }

   return memcpy_to_target(offset, sigtramp_code, TARGET_SZSIGCODE);
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/*
*  arm ELF definitions
*
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*/

#ifndef TARGET_ARCH_ELF_H
#define TARGET_ARCH_ELF_H

#define ELF_ET_DYN_LOAD_ADDR    0x500000

#define elf_check_arch(x) ((x) == EM_ARM)

#define ELF_CLASS       ELFCLASS32
#define ELF_DATA        ELFDATA2LSB
#define ELF_ARCH        EM_ARM

#define USE_ELF_CORE_DUMP
#define
 ELF_EXEC_PAGESIZE       4096

#define ELF_HWCAP get_elf_hwcap()
#define ELF_HWCAP2 get_elf_hwcap2()

#define GET_FEATURE(feat, hwcap) \
   do { if (arm_feature(&cpu->env, feat)) { hwcaps |= hwcap; } } while (0)

#define GET_FEATURE_ID(feat, hwcap) \
```

```
  do { if (cpu_isar_feature(feat, cpu)) { hwcaps |= hwcap; } } while (0)

enum {
  ARM_HWCAP_ARM_SWP       = 1 << 0,
  ARM_HWCAP_ARM_HALF      = 1 << 1,
  ARM_HWCAP_ARM_THUMB     = 1 << 2,
  ARM_HWCAP_ARM_26BIT     = 1 << 3,
  ARM_HWCAP_ARM_FAST_MULT = 1 << 4,
  ARM_HWCAP_ARM_FPA       = 1 << 5,
  ARM_HWCAP_ARM_VFP       = 1 << 6,
  ARM_HWCAP_ARM_EDSP      = 1 << 7,
  ARM_HWCAP_ARM_JAVA      = 1 << 8,
  ARM_HWCAP_ARM_IWMMXT    = 1 << 9,
  ARM_HWCAP_ARM_CRUNCH    = 1 << 10,
  ARM_HWCAP_ARM_THUMBEE   = 1 << 11,
  ARM_HWCAP_ARM_NEON      = 1 << 12,
  ARM_HWCAP_ARM_VFPv3     = 1 << 13,
  ARM_HWCAP_ARM_VFPv3D16  = 1 << 14,
  ARM_HWCAP_ARM_TLS       = 1 << 15,
  ARM_HWCAP_ARM_VFPv4     = 1 << 16,
  ARM_HWCAP_ARM_IDIVA
   = 1 << 17,
  ARM_HWCAP_ARM_IDIVT     = 1 << 18,
  ARM_HWCAP_ARM_VFPD32    = 1 << 19,
  ARM_HWCAP_ARM_LPAE      = 1 << 20,
  ARM_HWCAP_ARM_EVTSTRM   = 1 << 21,
};

enum {
  ARM_HWCAP2_ARM_AES      = 1 << 0,
  ARM_HWCAP2_ARM_PMULL    = 1 << 1,
  ARM_HWCAP2_ARM_SHA1     = 1 << 2,
  ARM_HWCAP2_ARM_SHA2     = 1 << 3,
  ARM_HWCAP2_ARM_CRC32    = 1 << 4,
};

static uint32_t get_elf_hwcap(void)
{
  ARMCPU *cpu = ARM_CPU(thread_cpu);
  uint32_t hwcaps = 0;

  hwcaps |= ARM_HWCAP_ARM_SWP;
  hwcaps |= ARM_HWCAP_ARM_HALF;
  hwcaps |= ARM_HWCAP_ARM_THUMB;
  hwcaps |= ARM_HWCAP_ARM_FAST_MULT;

  /* probe for the extra features */
  /* EDSP is in v5TE and above */
```

```
  GET_FEATURE(ARM_FEATURE_V5, ARM_HWCAP_ARM_EDSP);
  GET_FEATURE(ARM_FEATURE_IWMMXT, ARM_HWCAP_ARM_IWMMXT);
  GET_FEATURE(ARM_FEATURE_THUMB2EE, ARM_HWCAP_ARM_THUMBEE);
  GET_FEATURE(ARM_FEATURE_NEON, ARM_HWCAP_ARM_NEON);
  GET_FEATURE(ARM_FEATURE_V6K, ARM_HWCAP_ARM_TLS);
  GET_FEATURE(ARM_FEATURE_LPAE,
 ARM_HWCAP_ARM_LPAE);
  GET_FEATURE_ID(aa32_arm_div, ARM_HWCAP_ARM_IDIVA);
  GET_FEATURE_ID(aa32_thumb_div, ARM_HWCAP_ARM_IDIVT);
  GET_FEATURE_ID(aa32_vfp, ARM_HWCAP_ARM_VFP);

  if (cpu_isar_feature(aa32_fpsp_v3, cpu) ||
      cpu_isar_feature(aa32_fpdp_v3, cpu)) {
      hwcaps |= ARM_HWCAP_ARM_VFPv3;
      if (cpu_isar_feature(aa32_simd_r32, cpu)) {
          hwcaps |= ARM_HWCAP_ARM_VFPD32;
      } else {
          hwcaps |= ARM_HWCAP_ARM_VFPv3D16;
      }
  }
  GET_FEATURE_ID(aa32_simdfmac, ARM_HWCAP_ARM_VFPv4);

  return hwcaps;
}

static uint32_t get_elf_hwcap2(void)
{
  ARMCPU *cpu = ARM_CPU(thread_cpu);
  uint32_t hwcaps = 0;

  GET_FEATURE_ID(aa32_aes, ARM_HWCAP2_ARM_AES);
  GET_FEATURE_ID(aa32_pmull, ARM_HWCAP2_ARM_PMULL);
  GET_FEATURE_ID(aa32_sha1, ARM_HWCAP2_ARM_SHA1);
  GET_FEATURE_ID(aa32_sha2, ARM_HWCAP2_ARM_SHA2);
  GET_FEATURE_ID(aa32_crc32, ARM_HWCAP2_ARM_CRC32);
  return hwcaps;
}

#undef GET_FEATURE
#undef
 GET_FEATURE_ID

#endif /* TARGET_ARCH_ELF_H */
/*
*  arm cpu init and loop
*
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*
```

```
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*/

#ifndef TARGET_ARCH_CPU_H
#define TARGET_ARCH_CPU_H

#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "any"

static inline void target_cpu_init(CPUARMState *env,
      struct target_pt_regs *regs)
{
   int i;

   cpsr_write(env,
 regs->uregs[16], CPSR_USER | CPSR_EXEC,
            CPSRWriteByInstr);
   for (i = 0; i < 16; i++) {
      env->regs[i] = regs->uregs[i];
   }
}

static inline void target_cpu_loop(CPUARMState *env)
{
   int trapnr, si_signo, si_code;
   CPUState *cs = env_cpu(env);

   for (;;) {
      cpu_exec_start(cs);
      trapnr = cpu_exec(cs);
      cpu_exec_end(cs);
      process_queued_cpu_work(cs);
      switch (trapnr) {
      case EXCP_UDEF:
      case EXCP_NOCP:
```

```
    case EXCP_INVSTATE:
        /*
         * See arm/arm/undefined.c undefinedinstruction();
         *
         * A number of details aren't emulated (they likely don't matter):
         * o Misaligned PC generates ILL_ILLADR (these can't come from qemu)
         * o Thumb-2 instructions generate ILLADR
         * o Both modes implement coprocessor instructions, which we don't
         *   do here. FreeBSD just implements them for the VFP coprocessor
         *   and
special kernel breakpoints, trace points, dtrace, etc.
         */
        force_sig_fault(TARGET_SIGILL, TARGET_ILL_ILLOPC, env->regs[15]);
        break;
    case EXCP_SWI:
        {
            int ret;
            abi_ulong params = get_sp_from_cpustate(env);
            int32_t syscall_nr = env->regs[7];
            int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

            /* See arm/arm/syscall.c cpu_fetch_syscall_args() */
            if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
                syscall_nr = env->regs[0];
                arg1 = env->regs[1];
                arg2 = env->regs[2];
                arg3 = env->regs[3];
                get_user_s32(arg4, params);
                params += sizeof(int32_t);
                get_user_s32(arg5, params);
                params += sizeof(int32_t);
                get_user_s32(arg6, params);
                params += sizeof(int32_t);
                 get_user_s32(arg7, params);
                arg8 = 0;
            } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
                syscall_nr = env->regs[0];
                arg1 = env->regs[2];
                arg2 = env->regs[3];
                get_user_s32(arg3, params);
                params += sizeof(int32_t);
                get_user_s32(arg4, params);
                params += sizeof(int32_t);
                get_user_s32(arg5, params);
                params += sizeof(int32_t);
                get_user_s32(arg6, params);
                arg7 = 0;
                arg8 = 0;
```

```
            } else {
                arg1 = env->regs[0];
                arg2 = env->regs[1];
                arg3 = env->regs[2];
                arg4 = env->regs[3];
                get_user_s32(arg5, params);
                params += sizeof(int32_t);
                get_user_s32(arg6,
params);
                params += sizeof(int32_t);
                get_user_s32(arg7, params);
                params += sizeof(int32_t);
                get_user_s32(arg8, params);
            }
            ret = do_freebsd_syscall(env, syscall_nr, arg1, arg2, arg3,
                                     arg4, arg5, arg6, arg7, arg8);
            /*
             * Compare to arm/arm/vm_machdep.c
             * cpu_set_syscall_retval()
             */
            if (-TARGET_EJUSTRETURN == ret) {
                /*
                 * Returning from a successful sigreturn syscall.
                 * Avoid clobbering register state.
                 */
                break;
            }
            if (-TARGET_ERESTART == ret) {
                env->regs[15] -= env->thumb ? 2 : 4;
                break;
            }
            if ((unsigned int)ret >= (unsigned int)(-515)) {

  ret = -ret;
                cpsr_write(env, CPSR_C, CPSR_C, CPSRWriteByInstr);
                env->regs[0] = ret;
            } else {
                cpsr_write(env, 0, CPSR_C, CPSRWriteByInstr);
                env->regs[0] = ret; /* XXX need to handle lseek()? */
                /* env->regs[1] = 0; */
            }
        }
        break;
    case EXCP_INTERRUPT:
        /* just indicate that signals should be handled asap */
        break;
    case EXCP_PREFETCH_ABORT:
    case EXCP_DATA_ABORT:
```

```
    /*
     * See arm/arm/trap-v6.c prefetch_abort_handler() and
     * data_abort_handler()
     *
     * However, FreeBSD maps these to a generic value and then uses that
     * to maybe fault in pages in vm/vm_fault.c:vm_fault_trap(). I
     * believe that the indirection maps the same as Linux, but haven't
     * chased down every single possible indirection.

   */

    /* For user-only we don't set TTBCR_EAE, so look at the FSR. */
    switch (env->exception.fsr & 0x1f) {
    case 0x1: /* Alignment */
        si_signo = TARGET_SIGBUS;
        si_code = TARGET_BUS_ADRALN;
        break;
    case 0x3: /* Access flag fault, level 1 */
    case 0x6: /* Access flag fault, level 2 */
    case 0x9: /* Domain fault, level 1 */
    case 0xb: /* Domain fault, level 2 */
    case 0xd: /* Permission fault, level 1 */
    case 0xf: /* Permission fault, level 2 */
        si_signo = TARGET_SIGSEGV;
        si_code = TARGET_SEGV_ACCERR;
        break;
    case 0x5: /* Translation fault, level 1 */
    case 0x7: /* Translation fault, level 2 */
        si_signo = TARGET_SIGSEGV;
        si_code = TARGET_SEGV_MAPERR;
        break;
    default:
        g_assert_not_reached();

    }
    force_sig_fault(si_signo, si_code, env->exception.vaddress);
    break;
case EXCP_DEBUG:
case EXCP_BKPT:
    force_sig_fault(TARGET_SIGTRAP, TARGET_TRAP_BRKPT, env->regs[15]);
    break;
case EXCP_YIELD:
    /* nothing to do here for user-mode, just resume guest code */
    break;
case EXCP_ATOMIC:
    cpu_exec_step_atomic(cs);
    break;
default:
```

```
        fprintf(stderr, "qemu: unhandled CPU exception 0x%x - aborting\n",
                trapnr);
        cpu_dump_state(cs, stderr, 0);
        abort();
    } /* switch() */
    process_pending_signals(env);
  } /* for (;;) */
}

static inline void target_cpu_clone_regs(CPUARMState *env, target_ulong newsp)
{
  if (newsp) {
    env->regs[13] = newsp;
  }
  env->regs[0] = 0;
}

static inline void target_cpu_reset(CPUArchState *env)
{
}

#endif /* TARGET_ARCH_CPU_H */
/*
* Intel x86_64 specific prototypes for bsd-user
*
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*/

#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

/* target_arch_cpu.c */
void bsd_x86_64_write_dt(void *ptr, unsigned long addr, unsigned long limit,
            int flags);
void bsd_x86_64_set_idt(int n, unsigned int dpl);
```

```
void bsd_x86_64_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* TARGET_ARCH_H */
/*
*  openbsd ELF definitions
*
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*/

#ifndef TARGET_OS_ELF_H
#define TARGET_OS_ELF_H

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
```

```
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                          abi_ulong stringp,
                                          struct elfhdr *exec,
                                          abi_ulong load_addr,
                                           abi_ulong load_bias,
                                          abi_ulong interp_load_addr,
                                          struct image_info *info)
{
      abi_ulong sp;
      int size;
      abi_ulong u_platform;
      const char *k_platform;
      const int n = sizeof(elf_addr_t);

      sp = p;
      u_platform = 0;
      k_platform = ELF_PLATFORM;
      if (k_platform) {
         size_t len = strlen(k_platform) + 1;
         sp -= (len + n - 1) & ~(n - 1);
         u_platform = sp;
         /* FIXME - check return value of memcpy_to_target() for failure */
         memcpy_to_target(sp, k_platform, len);
      }
      /*
```

```
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    if (k_platform) {
        size += 2;
    }
#ifdef DLINFO_ARCH_ITEMS
    size += DLINFO_ARCH_ITEMS * 2;
#endif
     size += envc + argc + 2;
    size += 1;                      /* argc itself */
    size *= n;
    if (size & 15) {
        sp -= 16 - (size & 15);
    }

    /*
     * OpenBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
        sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
      } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    NEW_AUX_ENT(AT_UID,
 (abi_ulong)getuid());
    NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
    NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
    if (k_platform) {
        NEW_AUX_ENT(AT_PLATFORM, u_platform);
    }
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
```

```
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* TARGET_OS_ELF_H */
```

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```
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*  FreeBSD arm register structures
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*/

#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/arm/include/reg.h */
typedef struct target_reg {
   uint32_t        r[13];
   uint32_t        r_sp;
   uint32_t        r_lr;
   uint32_t        r_pc;
   uint32_t        r_cpsr;
} target_reg_t;

typedef
 struct target_fp_reg {
   uint32_t        fp_exponent;
   uint32_t        fp_mantissa_hi;
   u_int32_t       fp_mantissa_lo;
} target_fp_reg_t;

typedef struct target_fpreg {
   uint32_t        fpr_fpsr;
   target_fp_reg_t fpr[8];
} target_fpreg_t;

#define tswapreg(ptr)   tswapal(ptr)

static inline void target_copy_regs(target_reg_t *regs, const CPUARMState *env)
{
   int i;

   for (i = 0; i < 13; i++) {
       regs->r[i] = tswapreg(env->regs[i + 1]);
   }
   regs->r_sp = tswapreg(env->regs[13]);
   regs->r_lr = tswapreg(env->regs[14]);
   regs->r_pc = tswapreg(env->regs[15]);
   regs->r_cpsr = tswapreg(cpsr_read((CPUARMState *)env));
}
```

```
#undef tswapreg

#endif /* TARGET_ARCH_REG_H */
#ifndef TARGET_OS_SIGNAL_H
#define TARGET_OS_SIGNAL_H

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

abi_long setup_sigframe_arch(CPUArchState *env, abi_ulong frame_addr,
                             struct target_sigframe *frame, int flags);

/* Compare to sys/signal.h */
#define TARGET_SIGHUP  1       /* hangup */
#define TARGET_SIGINT  2       /* interrupt */
#define TARGET_SIGQUIT 3       /* quit */
#define TARGET_SIGILL  4       /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5       /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6       /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7       /* EMT instruction */
#define TARGET_SIGFPE  8       /* floating point exception */
#define TARGET_SIGKILL 9       /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10      /* bus error */
#define TARGET_SIGSEGV 11      /* segmentation violation */
#define TARGET_SIGSYS  12      /*
 bad argument to system call */
#define TARGET_SIGPIPE 13      /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for output if(tp->t_local&LTOSTOP)*/
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF 27      /*
 profiling time alarm */
#define TARGET_SIGWINCH 28     /* window size changes */
#define TARGET_SIGINFO  29     /* information request */
#define TARGET_SIGUSR1 30      /* user defined signal 1 */
#define TARGET_SIGUSR2 31      /* user defined signal 2 */
```

```
#define TARGET_SIGTHR 32       /* reserved by thread library */
#define TARGET_SIGLWP SIGTHR   /* compatibility */
#define TARGET_SIGLIBRT 33     /* reserved by the real-time library */
#define TARGET_SIGRTMIN 65
#define TARGET_SIGRTMAX 126

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL      ((abi_long)0)   /* default signal handling */
#define TARGET_SIG_IGN      ((abi_long)1)   /* ignore signal */
#define TARGET_SIG_ERR      ((abi_long)-1)  /* error return from signal */

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004
  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER   0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK        1   /* block specified signal set */
#define TARGET_SIG_UNBLOCK      2   /* unblock specified signal set */
#define TARGET_SIG_SETMASK      3   /* set specified signal set */

#define TARGET_BADSIG           SIG_ERR

/*
* sigaltstack control
*/
#define TARGET_SS_ONSTACK 0x0001  /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004  /* disable taking signals on alternate stack*/

#endif /* TARGET_OS_SIGNAL_H */
  NOTE! This copyright does *not* cover the so-called "standalone"
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 The header files "include/image.h" and "include/asm-*/u-boot.h"
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```

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==========

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```
/*
*  Intel x86_64 VM parameters definitions
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*/

#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to amd64/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)            /* max text size */
#define TARGET_DFLDSIZ  (32 * GiB)             /* initial data
 size limit */
#define TARGET_MAXDSIZ  (32 * GiB)             /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)              /* initial stack size limit */
#define TARGET_MAXSSIZ  (512 * MiB)            /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)            /* amount to grow stack */
```

```
#define TARGET_VM_MAXUSER_ADDRESS   (0x00007fffff000000UL)

#define TARGET_USRSTACK (TARGET_VM_MAXUSER_ADDRESS - TARGET_PAGE_SIZE)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
  return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
  state->regs[R_EDX] = retval2;
}

#endif /* TARGET_ARCH_VMPARAM_H */
```

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```
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*  BSD conversion extern declarations
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*/

#ifndef QEMU_BSD_H
#define QEMU_BSD_H

#include <sys/types.h>
#include <sys/resource.h>
#include <sys/ipc.h>
#include <sys/msg.h>
#include <sys/resource.h>
#include <sys/sem.h>
#include <sys/shm.h>
```

```
#include <sys/socket.h>
#include <sys/un.h>
#include <sys/uuid.h>
#include
 <sys/wait.h>
#include <netinet/in.h>

/* bsd-proc.c */
int target_to_host_resource(int code);
rlim_t target_to_host_rlim(abi_llong target_rlim);
abi_llong host_to_target_rlim(rlim_t rlim);
abi_long host_to_target_rusage(abi_ulong target_addr,
      const struct rusage *rusage);
abi_long host_to_target_wrusage(abi_ulong target_addr,
      const struct __wrusage *wrusage);
int host_to_target_waitstatus(int status);
void h2g_rusage(const struct rusage *rusage,
      struct target_freebsd_rusage *target_rusage);

/* bsd-mem.c */
void target_to_host_ipc_perm__locked(struct ipc_perm *host_ip,
      struct target_ipc_perm *target_ip);
void host_to_target_ipc_perm__locked(struct target_ipc_perm *target_ip,
      struct ipc_perm *host_ip);
abi_long target_to_host_shmid_ds(struct shmid_ds *host_sd,
      abi_ulong target_addr);
abi_long host_to_target_shmid_ds(abi_ulong target_addr,
      struct shmid_ds *host_sd);

#endif /* QEMU_BSD_H */
/*
*  OpenBSD thread dependent code and definitions
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*/
```

```
#ifndef TARGET_OS_THREAD_H
#define TARGET_OS_THREAD_H

#include "target_arch_thread.h"

#endif /* TARGET_OS_THREAD_H */
/*
* Intel x86_64  sigcode for bsd-user
*
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*/

#ifndef TARGET_ARCH_SIGTRAMP_H
#define TARGET_ARCH_SIGTRAMP_H

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{

  return 0;
}
#endif /* TARGET_ARCH_SIGTRAMP_H */
/*
*  qemu bsd user mode definition
*
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```

```
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*/
#ifndef QEMU_H
#define QEMU_H

#include "cpu.h"
#include "qemu/units.h"
#include "exec/cpu_ldst.h"
#include "exec/exec-all.h"

#undef DEBUG_REMAP

#include "exec/user/abitypes.h"

extern char **environ;

#include "exec/user/thunk.h"
#include "target_arch.h"
#include "syscall_defs.h"
#include "target_syscall.h"
#include
 "target_os_vmparam.h"
#include "target_os_signal.h"
#include "target.h"
#include "exec/gdbstub.h"
#include "qemu/clang-tsa.h"

#include "qemu-os.h"
/*
* This struct is used to hold certain information about the image.  Basically,
* it replicates in user space what would be certain task_struct fields in the
* kernel
*/
struct image_info {
   abi_ulong load_bias;
   abi_ulong load_addr;
   abi_ulong start_code;
   abi_ulong end_code;
   abi_ulong start_data;
   abi_ulong end_data;
   abi_ulong brk;
   abi_ulong rss;
   abi_ulong start_stack;
   abi_ulong entry;
   abi_ulong code_offset;
   abi_ulong data_offset;
```

```
  abi_ulong arg_start;
  abi_ulong arg_end;
  uint32_t  elf_flags;
};

struct emulated_sigtable {
  int pending; /* true if signal is pending */
  target_siginfo_t info;
};

/*
* NOTE: we force a big alignment so that the stack stored after is aligned too
*/
typedef struct TaskState {
  pid_t ts_tid;     /* tid (or pid) of this task
 */

  struct TaskState *next;
  struct bsd_binprm *bprm;
  struct image_info *info;

  struct emulated_sigtable sync_signal;
  /*
   * TODO: Since we block all signals while returning to the main CPU
   * loop, this needn't be an array
   */
  struct emulated_sigtable sigtab[TARGET_NSIG];
  /*
   * Nonzero if process_pending_signals() needs to do something (either
   * handle a pending signal or unblock signals).
   * This flag is written from a signal handler so should be accessed via
   * the qatomic_read() and qatomic_set() functions. (It is not accessed
   * from multiple threads.)
   */
  int signal_pending;
  /* True if we're leaving a sigsuspend and sigsuspend_mask is valid. */
  bool in_sigsuspend;
  /*
   * This thread's signal mask, as requested by the guest program.
   * The actual signal mask of this thread may differ:
   *  + we don't let SIGSEGV and SIGBUS be blocked while running guest code
   *  + sometimes we block all
 signals to avoid races
   */
  sigset_t signal_mask;
  /*
   * The signal mask imposed by a guest sigsuspend syscall, if we are
   * currently in the middle of such a syscall
```

```
    */
   sigset_t sigsuspend_mask;

   /* This thread's sigaltstack, if it has one */
   struct target_sigaltstack sigaltstack_used;
} __attribute__((aligned(16))) TaskState;

void stop_all_tasks(void);
extern const char *interp_prefix;
extern const char *qemu_uname_release;

/*
* TARGET_ARG_MAX defines the number of bytes allocated for arguments
* and envelope for the new program. 256k should suffice for a reasonable
* maximum env+arg in 32-bit environments, bump it up to 512k for !ILP32
* platforms.
*/
#if TARGET_ABI_BITS > 32
#define TARGET_ARG_MAX (512 * KiB)
#else
#define TARGET_ARG_MAX (256 * KiB)
#endif
#define MAX_ARG_PAGES (TARGET_ARG_MAX / TARGET_PAGE_SIZE)

/*
* This structure is used to hold the arguments that are
* used when loading binaries.
*/
struct bsd_binprm {
       char
 buf[128];
       void *page[MAX_ARG_PAGES];
       abi_ulong p;
       abi_ulong stringp;
       int fd;
       int e_uid, e_gid;
       int argc, envc;
       char **argv;
       char **envp;
       char *filename;         /* (Given) Name of binary */
       char *fullpath;         /* Full path of binary */
       int (*core_dump)(int, CPUArchState *);
};

void do_init_thread(struct target_pt_regs *regs, struct image_info *infop);
abi_ulong loader_build_argptr(int envc, int argc, abi_ulong sp,
                              abi_ulong stringp);
int loader_exec(const char *filename, char **argv, char **envp,
```

```
                struct target_pt_regs *regs, struct image_info *infop,
                struct bsd_binprm *bprm);

int load_elf_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int load_flt_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int is_target_elf_binary(int
 fd);

abi_long memcpy_to_target(abi_ulong dest, const void *src,
                          unsigned long len);
void target_set_brk(abi_ulong new_brk);
abi_long do_brk(abi_ulong new_brk);
void syscall_init(void);
abi_long do_freebsd_syscall(void *cpu_env, int num, abi_long arg1,
                            abi_long arg2, abi_long arg3, abi_long arg4,
                            abi_long arg5, abi_long arg6, abi_long arg7,
                            abi_long arg8);
abi_long do_netbsd_syscall(void *cpu_env, int num, abi_long arg1,
                           abi_long arg2, abi_long arg3, abi_long arg4,
                           abi_long arg5, abi_long arg6);
abi_long do_openbsd_syscall(void *cpu_env, int num, abi_long arg1,
                            abi_long arg2, abi_long arg3, abi_long arg4,
                            abi_long arg5, abi_long arg6);
void gemu_log(const char *fmt, ...) G_GNUC_PRINTF(1, 2);
extern __thread CPUState *thread_cpu;
void cpu_loop(CPUArchState *env);
char
 *target_strerror(int err);
int get_osversion(void);
void fork_start(void);
void fork_end(int child);

#include "qemu/log.h"

/* strace.c */
struct syscallname {
   int nr;
   const char *name;
   const char *format;
   void (*call)(const struct syscallname *,
                abi_long, abi_long, abi_long,
                abi_long, abi_long, abi_long);
   void (*result)(const struct syscallname *, abi_long);
};

void
```

```
print_freebsd_syscall(int num,
                      abi_long arg1, abi_long arg2, abi_long arg3,
                      abi_long arg4, abi_long arg5, abi_long arg6);
void print_freebsd_syscall_ret(int num, abi_long ret);
void
print_netbsd_syscall(int num,
                     abi_long arg1, abi_long arg2, abi_long arg3,
                     abi_long arg4, abi_long arg5, abi_long arg6);
void print_netbsd_syscall_ret(int num, abi_long ret);
void
print_openbsd_syscall(int num,
                      abi_long arg1, abi_long arg2, abi_long arg3,

 abi_long arg4, abi_long arg5, abi_long arg6);
void print_openbsd_syscall_ret(int num, abi_long ret);
/**
* print_taken_signal:
* @target_signum: target signal being taken
* @tinfo: target_siginfo_t which will be passed to the guest for the signal
*
* Print strace output indicating that this signal is being taken by the guest,
* in a format similar to:
* --- SIGSEGV {si_signo=SIGSEGV, si_code=SI_KERNEL, si_addr=0} ---
*/
void print_taken_signal(int target_signum, const target_siginfo_t *tinfo);
extern int do_strace;

/* mmap.c */
int target_mprotect(abi_ulong start, abi_ulong len, int prot);
abi_long target_mmap(abi_ulong start, abi_ulong len, int prot,
                     int flags, int fd, off_t offset);
int target_munmap(abi_ulong start, abi_ulong len);
abi_long target_mremap(abi_ulong old_addr, abi_ulong old_size,
                       abi_ulong new_size, unsigned long flags,
                       abi_ulong new_addr);
int target_msync(abi_ulong start, abi_ulong len, int flags);
extern
 abi_ulong mmap_next_start;
abi_ulong mmap_find_vma(abi_ulong start, abi_ulong size);
void mmap_reserve(abi_ulong start, abi_ulong size);
void TSA_NO_TSA mmap_fork_start(void);
void TSA_NO_TSA mmap_fork_end(int child);

/* main.c */
extern char qemu_proc_pathname[];
extern unsigned long target_maxtsiz;
extern unsigned long target_dfldsiz;
extern unsigned long target_maxdsiz;
```

```
extern unsigned long target_dflssiz;
extern unsigned long target_maxssiz;
extern unsigned long target_sgrowsiz;

/* os-syscall.c */
abi_long get_errno(abi_long ret);
bool is_error(abi_long ret);
int host_to_target_errno(int err);

/* os-proc.c */
abi_long freebsd_exec_common(abi_ulong path_or_fd, abi_ulong guest_argp,
       abi_ulong guest_envp, int do_fexec);
abi_long do_freebsd_procctl(void *cpu_env, int idtype, abi_ulong arg2,
       abi_ulong arg3, abi_ulong arg4, abi_ulong arg5, abi_ulong arg6);

/* os-sys.c */
abi_long do_freebsd_sysctl(CPUArchState *env, abi_ulong namep, int32_t namelen,

     abi_ulong oldp, abi_ulong oldlenp, abi_ulong newp, abi_ulong newlen);
abi_long do_freebsd_sysctlbyname(CPUArchState *env, abi_ulong namep,
       int32_t namelen, abi_ulong oldp, abi_ulong oldlenp, abi_ulong newp,
       abi_ulong newlen);
abi_long do_freebsd_sysarch(void *cpu_env, abi_long arg1, abi_long arg2);

/* user access */

#define VERIFY_READ  PAGE_READ
#define VERIFY_WRITE (PAGE_READ | PAGE_WRITE)

static inline bool access_ok(int type, abi_ulong addr, abi_ulong size)
{
   return page_check_range((target_ulong)addr, size, type);
}

/*
* NOTE __get_user and __put_user use host pointers and don't check access.
*
* These are usually used to access struct data members once the struct has been
* locked - usually with lock_user_struct().
*/

/*
* Tricky points:
* - Use __builtin_choose_expr to avoid type promotion from ?:,
* - Invalid sizes result in a compile time error stemming from
*   the fact that abort has no parameters.
* - It's easier to use the endian-specific
```

```
 unaligned load/store
*   functions than host-endian unaligned load/store plus tswapN.
* - The pragmas are necessary only to silence a clang false-positive
*   warning: see https://bugs.llvm.org/show_bug.cgi?id=39113 .
* - gcc has bugs in its _Pragma() support in some versions, eg
*   https://gcc.gnu.org/bugzilla/show_bug.cgi?id=83256 -- so we only
*   include the warning-suppression pragmas for clang
*/
#if defined(__clang__) && __has_warning("-Waddress-of-packed-member")
#define PRAGMA_DISABLE_PACKED_WARNING                           \
   _Pragma("GCC diagnostic push");                              \
   _Pragma("GCC diagnostic ignored \"-Waddress-of-packed-member\"")

#define PRAGMA_REENABLE_PACKED_WARNING          \
   _Pragma("GCC diagnostic pop")

#else
#define PRAGMA_DISABLE_PACKED_WARNING
#define PRAGMA_REENABLE_PACKED_WARNING
#endif

#define __put_user_e(x, hptr, e)                                \
   do {
                                \
      PRAGMA_DISABLE_PACKED_WARNING;                            \
      (__builtin_choose_expr(sizeof(*(hptr)) == 1, stb_p,               \
      __builtin_choose_expr(sizeof(*(hptr)) == 2, stw_##e##_p,          \
      __builtin_choose_expr(sizeof(*(hptr)) == 4, stl_##e##_p,          \
      __builtin_choose_expr(sizeof(*(hptr)) == 8, stq_##e##_p, abort))))  \
         ((hptr), (x)), (void)0);                               \
      PRAGMA_REENABLE_PACKED_WARNING;                           \
   } while (0)

#define __get_user_e(x, hptr, e)                                \
   do {                                                         \
      PRAGMA_DISABLE_PACKED_WARNING;                            \
      ((x) = (typeof(*hptr))(                                   \
      __builtin_choose_expr(sizeof(*(hptr)) == 1, ldub_p,               \

 __builtin_choose_expr(sizeof(*(hptr)) == 2, lduw_##e##_p,          \
      __builtin_choose_expr(sizeof(*(hptr)) == 4, ldl_##e##_p,          \
      __builtin_choose_expr(sizeof(*(hptr)) == 8, ldq_##e##_p, abort))))  \
         (hptr)), (void)0);                                     \
      PRAGMA_REENABLE_PACKED_WARNING;                           \
   } while (0)


#if TARGET_BIG_ENDIAN
```

```
# define __put_user(x, hptr)  __put_user_e(x, hptr, be)
# define __get_user(x, hptr)  __get_user_e(x, hptr, be)
#else
# define __put_user(x, hptr)  __put_user_e(x, hptr, le)
# define __get_user(x, hptr)  __get_user_e(x, hptr, le)
#endif

/*
* put_user()/get_user() take a guest address and check access
*
* These are usually used to access an atomic data type, such as an int, that
* has been passed by address.  These internally perform locking and unlocking
* on the data type.
*/
#define put_user(x, gaddr, target_type)                                 \
({                                                                      \
  abi_ulong __gaddr = (gaddr);                                          \
  target_type *__hptr;                                                  \
  abi_long __ret = 0;                                                   \
  __hptr = lock_user(VERIFY_WRITE, __gaddr, sizeof(target_type), 0);  \
  if (__hptr) {                                                         \
      __put_user((x), __hptr);                                          \
      unlock_user(__hptr, __gaddr, sizeof(target_type));                \
  } else                                                                \
      __ret = -TARGET_EFAULT;                                           \
  __ret;                                                                \
})

#define get_user(x, gaddr, target_type)                                 \
({                                                                      \
  abi_ulong __gaddr = (gaddr);                                          \
  target_type *__hptr;                                                  \
  abi_long __ret = 0;                                                   \
  __hptr = lock_user(VERIFY_READ, __gaddr, sizeof(target_type), 1);   \
  if (__hptr) {                                                         \
      __get_user((x), __hptr);                                          \
      unlock_user(__hptr, __gaddr, 0);                                  \
  } else {                                                              \
      (x) = 0;                                                          \
      __ret = -TARGET_EFAULT;                                           \
  }                                                                     \
  __ret;                                                                \
})

#define put_user_ual(x, gaddr) put_user((x), (gaddr), abi_ulong)
#define put_user_sal(x, gaddr) put_user((x), (gaddr), abi_long)
```

```
#define put_user_u64(x, gaddr)
 put_user((x), (gaddr), uint64_t)
#define put_user_s64(x, gaddr) put_user((x), (gaddr), int64_t)
#define put_user_u32(x, gaddr) put_user((x), (gaddr), uint32_t)
#define put_user_s32(x, gaddr) put_user((x), (gaddr), int32_t)
#define put_user_u16(x, gaddr) put_user((x), (gaddr), uint16_t)
#define put_user_s16(x, gaddr) put_user((x), (gaddr), int16_t)
#define put_user_u8(x, gaddr)  put_user((x), (gaddr), uint8_t)
#define put_user_s8(x, gaddr)  put_user((x), (gaddr), int8_t)

#define get_user_ual(x, gaddr) get_user((x), (gaddr), abi_ulong)
#define get_user_sal(x, gaddr) get_user((x), (gaddr), abi_long)
#define get_user_u64(x, gaddr) get_user((x), (gaddr), uint64_t)
#define get_user_s64(x, gaddr) get_user((x), (gaddr), int64_t)
#define get_user_u32(x, gaddr) get_user((x), (gaddr), uint32_t)
#define get_user_s32(x, gaddr) get_user((x), (gaddr), int32_t)
#define get_user_u16(x, gaddr) get_user((x), (gaddr), uint16_t)
#define get_user_s16(x, gaddr) get_user((x), (gaddr), int16_t)
#define get_user_u8(x,
 gaddr)  get_user((x), (gaddr), uint8_t)
#define get_user_s8(x, gaddr)  get_user((x), (gaddr), int8_t)

/*
* copy_from_user() and copy_to_user() are usually used to copy data
* buffers between the target and host.  These internally perform
* locking/unlocking of the memory.
*/
abi_long copy_from_user(void *hptr, abi_ulong gaddr, size_t len);
abi_long copy_to_user(abi_ulong gaddr, void *hptr, size_t len);

/*
* Functions for accessing guest memory.  The tget and tput functions
* read/write single values, byteswapping as necessary.  The lock_user function
* gets a pointer to a contiguous area of guest memory, but does not perform
* any byteswapping.  lock_user may return either a pointer to the guest
* memory, or a temporary buffer.
*/

/*
* Lock an area of guest memory into the host.  If copy is true then the
* host area will have the same contents as the guest.
*/
static inline void *lock_user(int type, abi_ulong guest_addr, long len,

    int copy)
{
   if (!access_ok(type, guest_addr, len)) {
       return NULL;
```

```
   }
#ifdef DEBUG_REMAP
   {
       void *addr;
       addr = g_malloc(len);
       if (copy) {
           memcpy(addr, g2h_untagged(guest_addr), len);
       } else {
           memset(addr, 0, len);
       }
       return addr;
   }
#else
   return g2h_untagged(guest_addr);
#endif
}

/*
* Unlock an area of guest memory.  The first LEN bytes must be flushed back to
* guest memory. host_ptr = NULL is explicitly allowed and does nothing.
*/
static inline void unlock_user(void *host_ptr, abi_ulong guest_addr,
                               long len)
{

#ifdef DEBUG_REMAP
   if (!host_ptr) {
       return;
   }
   if (host_ptr == g2h_untagged(guest_addr)) {
       return;
   }
   if (len > 0) {
       memcpy(g2h_untagged(guest_addr), host_ptr, len);
   }
   g_free(host_ptr);
#endif
}

/*
* Return the length of a string in target memory or -TARGET_EFAULT if access
* error.
*/
abi_long
 target_strlen(abi_ulong gaddr);

/* Like lock_user but for null terminated strings.  */
static inline void *lock_user_string(abi_ulong guest_addr)
```

```
{
   abi_long len;
   len = target_strlen(guest_addr);
   if (len < 0) {
       return NULL;
   }
   return lock_user(VERIFY_READ, guest_addr, (long)(len + 1), 1);
}

/* Helper macros for locking/unlocking a target struct.  */
#define lock_user_struct(type, host_ptr, guest_addr, copy)      \
   (host_ptr = lock_user(type, guest_addr, sizeof(*host_ptr), copy))
#define unlock_user_struct(host_ptr, guest_addr, copy)          \
   unlock_user(host_ptr, guest_addr, (copy) ? sizeof(*host_ptr) : 0)

static inline uint64_t target_arg64(uint32_t word0, uint32_t word1)
{
#if TARGET_ABI_BITS == 32
#if TARGET_BIG_ENDIAN
   return ((uint64_t)word0 << 32) | word1;
#else
   return ((uint64_t)word1 << 32) | word0;
#endif
#else /* TARGET_ABI_BITS != 32 */
   return word0;
#endif /* TARGET_ABI_BITS != 32 */
}

#include <pthread.h>

#include "user/safe-syscall.h"

#endif
 /* QEMU_H */
/*
*  x86_64 cpu init and loop
*
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```

```
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*/

#ifndef TARGET_ARCH_CPU_H
#define TARGET_ARCH_CPU_H

#include "target_arch.h"
#include "signal-common.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu64"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
   uint64_t *gdt_table;

   env->cr[0] = CR0_PG_MASK | CR0_WP_MASK
 | CR0_PE_MASK;
   env->hflags |= HF_PE_MASK | HF_CPL_MASK;
   if (env->features[FEAT_1_EDX] & CPUID_SSE) {
      env->cr[4] |= CR4_OSFXSR_MASK;
      env->hflags |= HF_OSFXSR_MASK;
   }

   /* enable 64 bit mode if possible */
   if (!(env->features[FEAT_8000_0001_EDX] & CPUID_EXT2_LM)) {
      fprintf(stderr, "The selected x86 CPU does not support 64 bit mode\n");
      exit(1);
   }
   env->cr[4] |= CR4_PAE_MASK;
   env->efer |= MSR_EFER_LMA | MSR_EFER_LME;
   env->hflags |= HF_LMA_MASK;

   /* flags setup : we activate the IRQs by default as in user mode */
   env->eflags |= IF_MASK;

   /* register setup */
   env->regs[R_EAX] = regs->rax;
   env->regs[R_EBX] = regs->rbx;
   env->regs[R_ECX] = regs->rcx;
   env->regs[R_EDX] = regs->rdx;
   env->regs[R_ESI] = regs->rsi;
   env->regs[R_EDI] = regs->rdi;
   env->regs[R_EBP] = regs->rbp;
   env->regs[R_ESP] = regs->rsp;
   env->eip = regs->rip;
```

```
/* interrupt setup */
env->idt.limit = 511;


env->idt.base = target_mmap(0, sizeof(uint64_t) * (env->idt.limit + 1),
   PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
bsd_x86_64_set_idt_base(env->idt.base);
bsd_x86_64_set_idt(0, 0);
bsd_x86_64_set_idt(1, 0);
bsd_x86_64_set_idt(2, 0);
bsd_x86_64_set_idt(3, 3);
bsd_x86_64_set_idt(4, 3);
bsd_x86_64_set_idt(5, 0);
bsd_x86_64_set_idt(6, 0);
bsd_x86_64_set_idt(7, 0);
bsd_x86_64_set_idt(8, 0);
bsd_x86_64_set_idt(9, 0);
bsd_x86_64_set_idt(10, 0);
bsd_x86_64_set_idt(11, 0);
bsd_x86_64_set_idt(12, 0);
bsd_x86_64_set_idt(13, 0);
bsd_x86_64_set_idt(14, 0);
bsd_x86_64_set_idt(15, 0);
bsd_x86_64_set_idt(16, 0);
bsd_x86_64_set_idt(17, 0);
bsd_x86_64_set_idt(18, 0);
bsd_x86_64_set_idt(19, 0);
bsd_x86_64_set_idt(0x80, 3);

/* segment setup */
env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
      PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
 env->gdt.limit = sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
gdt_table = g2h_untagged(env->gdt.base);

/* 64 bit code segment */
bsd_x86_64_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
      DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK | DESC_L_MASK
      | (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

bsd_x86_64_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
      DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
      (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

cpu_x86_load_seg(env, R_CS, __USER_CS);
cpu_x86_load_seg(env, R_SS, __USER_DS);
cpu_x86_load_seg(env, R_DS, 0);
cpu_x86_load_seg(env, R_ES, 0);
```

```
    cpu_x86_load_seg(env, R_FS, 0);
    cpu_x86_load_seg(env, R_GS, 0);
}

static inline void target_cpu_loop(CPUX86State *env)
{
    CPUState *cs = env_cpu(env);
    int trapnr;
    abi_ulong pc;
    /* target_siginfo_t info; */

    for (;;) {
        cpu_exec_start(cs);
        trapnr = cpu_exec(cs);
         cpu_exec_end(cs);
        process_queued_cpu_work(cs);

        switch (trapnr) {
        case EXCP_SYSCALL:
            /* syscall from syscall instruction */
            env->regs[R_EAX] = do_freebsd_syscall(env,
                                          env->regs[R_EAX],
                                          env->regs[R_EDI],
                                          env->regs[R_ESI],
                                          env->regs[R_EDX],
                                          env->regs[R_ECX],
                                          env->regs[8],
                                          env->regs[9], 0, 0);
            env->eip = env->exception_next_eip;
            if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
                env->regs[R_EAX] = -env->regs[R_EAX];
                env->eflags |= CC_C;
            } else {
                env->eflags &= ~CC_C;
            }

       break;

        case EXCP_INTERRUPT:
            /* just indicate that signals should be handled asap */
            break;

        case EXCP_ATOMIC:
            cpu_exec_step_atomic(cs);
            break;

        default:
            pc = env->segs[R_CS].base + env->eip;
```

```
        fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                "aborting\n", (long)pc, trapnr);
        abort();
      }
      process_pending_signals(env);
    }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
{
  if (newsp) {
      env->regs[R_ESP] = newsp;
  }
  env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *env)
{
  cpu_reset(env_cpu(env));
}

#endif /* TARGET_ARCH_CPU_H */
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*
*      @(#)errno.h     8.5 (Berkeley) 1/21/94
*/

#ifndef ERRNO_DEFS_H
#define ERRNO_DEFS_H

#define
 TARGET_EPERM            1               /* Operation not permitted */
#define TARGET_ENOENT          2               /* No such file or directory */
#define TARGET_ESRCH           3               /* No such process */
#define TARGET_EINTR           4               /* Interrupted system call */
#define TARGET_EIO             5               /* Input/output error */
#define TARGET_ENXIO           6               /* Device not configured */
#define TARGET_E2BIG           7               /* Argument list too long */
#define TARGET_ENOEXEC         8               /* Exec format error */
#define TARGET_EBADF           9               /* Bad file descriptor */
#define TARGET_ECHILD          10              /* No child processes */
#define TARGET_EDEADLK         11              /* Resource deadlock avoided */
                               /* 11 was EAGAIN */
#define TARGET_ENOMEM          12              /* Cannot allocate memory */
#define TARGET_EACCES
         13            /* Permission denied */
#define TARGET_EFAULT          14              /* Bad address */
#define TARGET_ENOTBLK         15              /* Block device required */
#define TARGET_EBUSY           16              /* Device busy */
#define TARGET_EEXIST          17              /* File exists */
#define TARGET_EXDEV           18              /* Cross-device link */
#define TARGET_ENODEV          19              /* Operation not supported by device */
#define TARGET_ENOTDIR         20              /* Not a directory */
#define TARGET_EISDIR          21              /* Is a directory */
#define TARGET_EINVAL          22              /* Invalid argument */
#define TARGET_ENFILE          23              /* Too many open files in system */
#define TARGET_EMFILE          24              /* Too many open files */
#define TARGET_ENOTTY          25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY         26              /* Text file busy
 */
#define TARGET_EFBIG           27              /* File too large */
#define TARGET_ENOSPC          28              /* No space left on device */
#define TARGET_ESPIPE          29              /* Illegal seek */
#define TARGET_EROFS           30              /* Read-only file system */
#define TARGET_EMLINK          31              /* Too many links */
```

```
#define TARGET_EPIPE            32              /* Broken pipe */

/* math software */
#define TARGET_EDOM             33              /* Numerical argument out of domain */
#define TARGET_ERANGE           34              /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN           35              /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK      EAGAIN          /* Operation would block */
#define TARGET_EINPROGRESS      36              /* Operation now in progress */
#define TARGET_EALREADY 37              /* Operation already in progress */

/* ipc/network software -- argument
 errors */
#define TARGET_ENOTSOCK 38              /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ     39              /* Destination address required */
#define TARGET_EMSGSIZE 40              /* Message too long */
#define TARGET_EPROTOTYPE       41              /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT      42              /* Protocol not available */
#define TARGET_EPROTONOSUPPORT  43              /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT  44              /* Socket type not supported */
#define TARGET_EOPNOTSUPP       45              /* Operation not supported */
#define TARGET_EPFNOSUPPORT     46              /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT     47              /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE       48              /* Address already in use */
#define TARGET_EADDRNOTAVAIL    49              /* Can't assign requested address */

/* ipc/network software
 -- operational errors */
#define TARGET_ENETDOWN 50              /* Network is down */
#define TARGET_ENETUNREACH      51              /* Network is unreachable */
#define TARGET_ENETRESET        52              /* Network dropped connection on reset */
#define TARGET_ECONNABORTED     53              /* Software caused connection abort */
#define TARGET_ECONNRESET       54              /* Connection reset by peer */
#define TARGET_ENOBUFS          55              /* No buffer space available */
#define TARGET_EISCONN          56              /* Socket is already connected */
#define TARGET_ENOTCONN 57              /* Socket is not connected */
#define TARGET_ESHUTDOWN        58              /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS     59              /* Too many references: can't splice */
#define TARGET_ETIMEDOUT        60              /* Operation timed out */
#define TARGET_ECONNREFUSED     61              /* Connection refused */

#define TARGET_ELOOP
            62              /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG     63              /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN        64              /* Host is down */
```

```
#define TARGET_EHOSTUNREACH     65              /* No route to host */
#define TARGET_ENOTEMPTY        66              /* Directory not empty */

/* quotas & mush */
#define TARGET_EPROCLIM 67              /* Too many processes */
#define TARGET_EUSERS           68              /* Too many users */
#define TARGET_EDQUOT           69              /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE           70              /* Stale NFS file handle */
#define TARGET_EREMOTE          71              /* Too many levels of remote in path */
#define TARGET_EBADRPC          72              /* RPC struct is bad */
#define TARGET_ERPCMISMATCH     73              /* RPC version wrong */
#define TARGET_EPROGUNAVAIL     74              /* RPC
 prog. not avail */
#define TARGET_EPROGMISMATCH    75              /* Program version wrong */
#define TARGET_EPROCUNAVAIL     76              /* Bad procedure for program */

#define TARGET_ENOLCK           77              /* No locks available */
#define TARGET_ENOSYS           78              /* Function not implemented */

#define TARGET_EFTYPE           79              /* Inappropriate file type or format */
#define TARGET_EAUTH            80              /* Authentication error */
#define TARGET_ENEEDAUTH        81              /* Need authenticator */
#define TARGET_EIPSEC           82              /* IPsec processing failure */
#define TARGET_ENOATTR          83              /* Attribute not found */
#define TARGET_EILSEQ           84              /* Illegal byte sequence */
#define TARGET_ENOMEDIUM        85              /* No medium found */
#define TARGET_EMEDIUMTYPE      86              /* Wrong Medium Type */
#define TARGET_EOVERFLOW        87              /* Conversion overflow
 */
#define TARGET_ECANCELED        88              /* Operation canceled */
#define TARGET_EIDRM            89              /* Identifier removed */
#define TARGET_ENOMSG           90              /* No message of desired type */
#define TARGET_ELAST            90              /* Must be equal largest errno */

/* Internal errors: */
#define TARGET_EJUSTRETURN      254             /* Just return without modifying regs */
#define TARGET_ERESTART         255             /* Restart syscall */

#include "special-errno.h"

_Static_assert(TARGET_ERESTART == QEMU_ERESTARTSYS,
            "TARGET_ERESTART and QEMU_ERESTARTSYS expected to match");

#endif /* ERRNO_DEFS_H */
```

List of OpenSBI Contributors (Alphabetically sorted)

==========

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/*
* Intel x86 specific prototypes for bsd-user

```
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*/

#ifndef TARGET_ARCH_H
#define TARGET_ARCH_H

/* target_arch_cpu.c */
void bsd_i386_write_dt(void *ptr, unsigned long addr, unsigned long limit,
             int flags);
void bsd_i386_set_idt(int n, unsigned int dpl);
void bsd_i386_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* TARGET_ARCH_H */
/*
*  i386 VM parameters definitions
*
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*/
```

```
#ifndef TARGET_ARCH_VMPARAM_H
#define TARGET_ARCH_VMPARAM_H

#include "cpu.h"

/* compare to i386/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)             /* max text size */
#define TARGET_DFLDSIZ  (128 * MiB)             /* initial data size limit
 */
#define TARGET_MAXDSIZ  (512 * MiB)             /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)               /* initial stack size limit */
#define TARGET_MAXSSIZ  (64 * MiB)              /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)             /* amount to grow stack */

#define TARGET_RESERVED_VA 0xf7000000

#define TARGET_USRSTACK (0xbfc00000)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
  return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
  state->regs[R_EDX] = retval2;
}

#endif /* TARGET_ARCH_VMPARAM_H */
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
   if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+        x86emu_dump_xregs();
+ } else {
+        x86emu_dump_regs();
+ }
```

```
   }
   if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
      printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+   printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
      M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/*****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+*****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+  // perform the byte swap
+  s32 temp = reg;
+  reg = (temp & 0xFF000000) >> 24;
+  reg |= (temp & 0xFF0000) >> 8;
+  reg |= (temp & 0xFF00) << 8;
+  reg |= (temp & 0xFF) << 24;
+  return reg;
+}
```

```
+
+void x86emuOp2_bswap(u8 op2)
+{
+
   /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+      case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+        break;
+    }
+    TRACE_AND_STEP();
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
```

```
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
```

```
        M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2526,6 +2534,8 @@
        store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
        M.x86.R_SI += inc;
        M.x86.R_DI += inc;
+        if (M.x86.intr & INTR_HALTED)
+            break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2559,9 +2569,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* move them until CX is ZERO. */
-        count = M.x86.R_CX;
+        /* move them until (E)CX is ZERO. */
+        count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2574,6 +2586,8 @@
        }
        M.x86.R_SI += inc;
```

```
      M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2598,16 +2612,21 @@

   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val1 = fetch_data_byte(M.x86.R_SI);
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                 cmp_byte(val1, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+
             M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2644,8 +2663,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          if (M.x86.mode & SYSMODE_PREFIX_DATA) {
             val1 = fetch_data_long(M.x86.R_SI);
             val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
             val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
             cmp_word((u16)val1, (u16)val2);
          }
```

```
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
           M.x86.R_SI += inc;
           M.x86.R_DI += inc;
           if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
           if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+          if (M.x86.intr & INTR_HALTED)
+              break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /*
 move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
           store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
           M.x86.R_DI += inc;
+          if (M.x86.intr & INTR_HALTED)
+              break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+          M.x86.R_ECX = 0;
```

```
     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2795,6 +2826,8 @@
          store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
       }
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2817,11 +2850,16 @@
       inc = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
+           if (M.x86.intr & INTR_HALTED)
+
               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2859,9 +2897,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2871,6 +2911,8 @@
```

```
            M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        }
        M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
        inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

            val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_byte(M.x86.R_AL, val2);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
                break;          /* zero flag set means equal */
```

```
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -2951,8 +3003,8 @@
    TRACE_AND_STEP();
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /* REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            }
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF) == 0)
                break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            if (M.x86.mode & SYSMODE_PREFIX_DATA) {
                val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
                val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_word(M.x86.R_AX, (u16)val);
            }
-           M.x86.R_CX -= 1;
```

```
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
               break;          /* zero flag set means equal */
+           if (M.x86.intr & INTR_HALTED)
+               break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
    } else {
@@ -3238,9 +3300,9 @@
    DECODE_PRINTF("RET\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3254,9 +3316,9
 @@
{
    START_OF_INSTR();
    DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
    DECODE_PRINTF("RETF\t");
    imm = fetch_word_imm();
    DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
    M.x86.R_IP = pop_word();
    M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
    M.x86.R_SP += imm;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -3488,10 +3550,10 @@
```

```
{
   START_OF_INSTR();
   DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
        M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.R_ECX -= 1;
+    else
+        M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
         M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-    M.x86.R_CX -= 1;
-    if (M.x86.R_CX != 0)
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
```

```
+       M.x86.R_ECX -= 1;
+    else
+       M.x86.R_CX -= 1;
+    if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-    if (M.x86.R_CX == 0)
+    if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+    JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
```

```
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4371,6 +4449,8 @@
    DECODE_PRINTF("REPE\n");
    TRACE_AND_STEP();
     M.x86.mode |= SYSMODE_PREFIX_REPE;
+    if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+        M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
            break;
        case 4:         /* jmp word ptr ... */
            destval = fetch_data_word(destoffset);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            break;
        case 5:         /* jmp far ptr ... */
            destval = fetch_data_word(destoffset);
            destval2 = fetch_data_word(destoffset + 2);
+            JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
            TRACE_AND_STEP();
            M.x86.R_IP = destval;
            M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

    *res_lo = (u32)res;
    *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
```

```
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-    u64 res = (u32)M.x86.R_EAX * (u32)s;
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* in until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* in until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                     M.x86.R_ECX : M.x86.R_CX);
-
         while (count--) {
          single_in(size);
          M.x86.R_DI += inc;
          }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
           M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-        /* out until CX is ZERO. */
-        u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+        /* out until (E)CX is ZERO. */
+        u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                     M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
          single_out(size);
          M.x86.R_SI += inc;
          }
        M.x86.R_CX = 0;
-        if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+        if (M.x86.mode & SYSMODE_32BIT_REP) {
           M.x86.R_ECX = 0;
        }
        M.x86.mode
```

```
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/*****************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

/*****************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/*****************************************************************************
```

```
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
        printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/
```

```
/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()      (M.x86.debug & DEBUG_TRACECALL_F)
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()           (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()      (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()       (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()        0
# define DEBUG_TRACECALL()      0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
       0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()           0
# define DEBUG_MEM_TRACE()      0
# define DEBUG_IO_TRACE()       0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                                \
 if (DEBUG_TRACECALL())                              \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                        \
+# define RETURN_TRACE(u,v,w,x,s)                    \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                                \
 if (DEBUG_TRACECALL())                              \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                      \
+   if (DEBUG_TRACEJMPREGS()) \
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
```

```
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+// for REP(E|NE) Instructions, we need to decide whether it should be using
+// the 32bit ECX register or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
      SYSMODE_SEGOVR_GS
     | \
      SYSMODE_SEGOVR_SS     | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                     mode;
   volatile int              intr;   /* mask of pending interrupts */
- int                     debug;
+    volatile int                     debug;
#ifdef DEBUG
- int                     check;
+    int                     check;
   u16                     saved_ip;
   u16                     saved_cs;
   int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21 -0000 1.1
+++
```

```
 include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

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```
/*
*  sys/user.h definitions
*
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#ifndef TARGET_OS_USER_H
#define TARGET_OS_USER_H
```

```
/*
* from sys/priority.h
*/
struct target_priority {
   uint8_t     pri_class;      /* Scheduling class. */
   uint8_t     pri_level;      /* Normal priority level. */
   uint8_t     pri_native;
     /* Priority before propagation. */
   uint8_t     pri_user;       /* User priority based on p_cpu and p_nice. */
};

/*
* sys/caprights.h
*/
#define TARGET_CAP_RIGHTS_VERSION  0

typedef struct target_cap_rights {
   uint64_t    cr_rights[TARGET_CAP_RIGHTS_VERSION + 2];
} target_cap_rights_t;

/*
* From sys/_socketaddr_storage.h
*
*/
#define TARGET_SS_MAXSIZE     128U
#define TARGET_SS_ALIGNSIZE   (sizeof(__int64_t))
#define TARGET_SS_PAD1SIZE    (TARGET_SS_ALIGNSIZE - sizeof(unsigned char) - \
       sizeof(uint8_t))
#define TARGET_SS_PAD2SIZE    (TARGET_SS_MAXSIZE - sizeof(unsigned char) - \
       sizeof(uint8_t) - TARGET_SS_PAD1SIZE - TARGET_SS_ALIGNSIZE)

struct target_sockaddr_storage {
   unsigned char   ss_len;         /* address length */
   uint8_t         ss_family;      /* address family */
   char            __ss_pad1[TARGET_SS_PAD1SIZE];
   __int64_t       __ss_align;     /* force desired struct alignment */
   char            __ss_pad2[TARGET_SS_PAD2SIZE];
};

/*
 * from sys/user.h
*/
#define TARGET_KI_NSPARE_INT        2
#define TARGET_KI_NSPARE_LONG       12
#define TARGET_KI_NSPARE_PTR        6

#define TARGET_WMESGLEN             8
#define TARGET_LOCKNAMELEN          8
```

```
#define TARGET_TDNAMLEN            16
#define TARGET_COMMLEN             19
#define TARGET_KI_EMULNAMELEN      16
#define TARGET_KI_NGROUPS          16
#define TARGET_LOGNAMELEN          17
#define TARGET_LOGINCLASSLEN       17

#define TARGET_KF_TYPE_NONE        0
#define TARGET_KF_TYPE_VNODE       1
#define TARGET_KF_TYPE_SOCKET      2
#define TARGET_KF_TYPE_PIPE        3
#define TARGET_KF_TYPE_FIFO        4
#define TARGET_KF_TYPE_KQUEUE      5
#define TARGET_KF_TYPE_CRYPTO      6
#define TARGET_KF_TYPE_MQUEUE      7
#define TARGET_KF_TYPE_SHM         8
#define TARGET_KF_TYPE_SEM         9
#define TARGET_KF_TYPE_PTS         10
#define TARGET_KF_TYPE_PROCDESC    11
#define TARGET_KF_TYPE_DEV         12
#define TARGET_KF_TYPE_UNKNOWN     255

struct
 target_kinfo_proc {
   int32_t     ki_structsize;      /* size of this structure */
   int32_t     ki_layout;          /* reserved: layout identifier */
   abi_ulong   ki_args;            /* address of command arguments */
   abi_ulong   ki_paddr;           /* address of proc */
   abi_ulong   ki_addr;            /* kernel virtual addr of u-area */
   abi_ulong   ki_tracep;          /* pointer to trace file */
   abi_ulong   ki_textvp;          /* pointer to executable file */
   abi_ulong   ki_fd;              /* pointer to open file info */
   abi_ulong   ki_vmspace;         /* pointer to kernel vmspace struct */
   abi_ulong   ki_wchan;           /* sleep address */
   int32_t     ki_pid;             /* Process identifier */
   int32_t     ki_ppid;            /* parent process id */
   int32_t     ki_pgid;            /* process group id */
   int32_t     ki_tpgid;           /* tty process group id */
   int32_t     ki_sid;             /* Process session ID */
    int32_t     ki_tsid;           /* Terminal session ID */
   int16_t     ki_jobc;            /* job control counter */
   int16_t     ki_spare_short1;    /* unused (just here for alignment) */
   int32_t     ki_tdev__freebsd11; /* controlling tty dev */
   target_sigset_t ki_siglist;     /* Signals arrived but not delivered */
   target_sigset_t ki_sigmask;     /* Current signal mask */
   target_sigset_t ki_sigignore;   /* Signals being ignored */
   target_sigset_t ki_sigcatch;    /* Signals being caught by user */
```

```
int32_t     ki_uid;             /* effective user id */
int32_t     ki_ruid;            /* Real user id */
int32_t     ki_svuid;           /* Saved effective user id */
int32_t     ki_rgid;            /* Real group id */
int32_t     ki_svgid;           /* Saved effective group id */
int16_t     ki_ngroups;         /* number of groups */
int16_t     ki_spare_short2;    /* unused (just here for alignment) */
int32_t     ki_groups[TARGET_KI_NGROUPS];
/* groups */

abi_long    ki_size;            /* virtual size */

abi_long    ki_rssize;          /* current resident set size in pages */
abi_long    ki_swrss;           /* resident set size before last swap */
abi_long    ki_tsize;           /* text size (pages) XXX */
abi_long    ki_dsize;           /* data size (pages) XXX */
abi_long    ki_ssize;           /* stack size (pages) */

uint16_t    ki_xstat;           /* Exit status for wait & stop signal */
uint16_t    ki_acflag;          /* Accounting flags */

uint32_t    ki_pctcpu;          /* %cpu for process during ki_swtime */

uint32_t    ki_estcpu;          /* Time averaged value of ki_cpticks */
uint32_t    ki_slptime;         /* Time since last blocked */
uint32_t    ki_swtime;          /* Time swapped in or out */
uint32_t    ki_cow;             /* number of copy-on-write faults */
uint64_t    ki_runtime;         /* Real time in microsec */

struct
target_freebsd_timeval ki_start;  /* starting time */
struct  target_freebsd_timeval ki_childtime; /* time used by process children */

abi_long    ki_flag;            /* P_* flags */
abi_long    ki_kiflag;          /* KI_* flags (below) */
int32_t     ki_traceflag;       /* Kernel trace points */
char        ki_stat;            /* S* process status */
int8_t      ki_nice;            /* Process "nice" value */
char        ki_lock;            /* Process lock (prevent swap) count */
char        ki_rqindex;         /* Run queue index */
u_char      ki_oncpu_old;       /* Which cpu we are on (legacy) */
u_char      ki_lastcpu_old;     /* Last cpu we were on (legacy) */
char        ki_tdname[TARGET_TDNAMLEN + 1];  /* thread name */
char        ki_wmesg[TARGET_WMESGLEN + 1];   /* wchan message */
char        ki_login[TARGET_LOGNAMELEN + 1]; /* setlogin name */
char        ki_lockname[TARGET_LOCKNAMELEN + 1]; /* lock name */
char
```

```
        ki_comm[TARGET_COMMLEN + 1];     /* command name */
    char        ki_emul[TARGET_KI_EMULNAMELEN + 1];  /* emulation name */
    char        ki_loginclass[TARGET_LOGINCLASSLEN + 1]; /* login class */

    char        ki_sparestrings[50];    /* spare string space */
    int32_t     ki_spareints[TARGET_KI_NSPARE_INT]; /* spare room for growth */
    uint64_t ki_tdev;  /* controlling tty dev */
    int32_t     ki_oncpu;           /* Which cpu we are on */
    int32_t     ki_lastcpu;         /* Last cpu we were on */
    int32_t     ki_tracer;          /* Pid of tracing process */
    int32_t     ki_flag2;           /* P2_* flags */
    int32_t     ki_fibnum;          /* Default FIB number */
    uint32_t    ki_cr_flags;        /* Credential flags */
    int32_t     ki_jid;             /* Process jail ID */
    int32_t     ki_numthreads;      /* XXXKSE number of threads in total */

    int32_t     ki_tid;             /* XXXKSE thread id */

    struct  target_priority ki_pri; /*
  process priority */
    struct  target_freebsd_rusage ki_rusage;  /* process rusage statistics */
        /* XXX - most fields in ki_rusage_ch are not (yet) filled in */
    struct  target_freebsd_rusage ki_rusage_ch; /* rusage of children processes */


    abi_ulong   ki_pcb;             /* kernel virtual addr of pcb */
    abi_ulong   ki_kstack;          /* kernel virtual addr of stack */
    abi_ulong   ki_udata;           /* User convenience pointer */
    abi_ulong   ki_tdaddr;          /* address of thread */

    abi_ulong   ki_spareptrs[TARGET_KI_NSPARE_PTR];  /* spare room for growth */
    abi_long    ki_sparelongs[TARGET_KI_NSPARE_LONG];/* spare room for growth */
    abi_long    ki_sflag;           /* PS_* flags */
    abi_long    ki_tdflags;         /* XXXKSE kthread flag */
};

struct target_kinfo_file {
    int32_t  kf_structsize;  /* Variable size of record. */
    int32_t  kf_type;  /* Descriptor type. */
    int32_t  kf_fd;   /* Array index. */
    int32_t  kf_ref_count;
   /* Reference count. */
    int32_t  kf_flags;  /* Flags. */
    int32_t  kf_pad0;  /* Round to 64 bit alignment. */
    int64_t  kf_offset;  /* Seek location. */
    union {
        struct {
            uint32_t kf_spareint;
```

```
        /* Socket domain. */
        int  kf_sock_domain0;
        /* Socket type. */
        int  kf_sock_type0;
        /* Socket protocol. */
        int  kf_sock_protocol0;
        /* Socket address. */
        struct sockaddr_storage kf_sa_local;
        /* Peer address. */
        struct sockaddr_storage kf_sa_peer;
        /* Address of so_pcb. */
        uint64_t kf_sock_pcb;
        /* Address of inp_ppcb. */
        uint64_t kf_sock_inpcb;
        /* Address of unp_conn. */
        uint64_t kf_sock_unpconn;
        /* Send buffer state. */
        uint16_t kf_sock_snd_sb_state;
        /* Receive buffer state. */
        uint16_t kf_sock_rcv_sb_state;
        /* Round
to 64 bit alignment. */
        uint32_t kf_sock_pad0;
    } kf_sock;
    struct {
        /* Vnode type. */
        int  kf_file_type;
        /* Space for future use */
        int  kf_spareint[3];
        uint64_t kf_spareint64[30];
        /* Vnode filesystem id. */
        uint64_t kf_file_fsid;
        /* File device. */
        uint64_t kf_file_rdev;
        /* Global file id. */
        uint64_t kf_file_fileid;
        /* File size. */
        uint64_t kf_file_size;
        /* Vnode filesystem id, FreeBSD 11 compat. */
        uint32_t kf_file_fsid_freebsd11;
        /* File device, FreeBSD 11 compat. */
        uint32_t kf_file_rdev_freebsd11;
        /* File mode. */
        uint16_t kf_file_mode;
        /* Round to 64 bit alignment. */
        uint16_t kf_file_pad0;
        uint32_t kf_file_pad1;
    } kf_file;
```

```
        struct {
            uint32_t kf_spareint[4];

         uint64_t kf_spareint64[32];
            uint32_t kf_sem_value;
            uint16_t kf_sem_mode;
        } kf_sem;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            uint64_t kf_pipe_addr;
            uint64_t kf_pipe_peer;
            uint32_t kf_pipe_buffer_cnt;
            /* Round to 64 bit alignment. */
            uint32_t kf_pipe_pad0[3];
        } kf_pipe;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            uint32_t kf_pts_dev_freebsd11;
            uint32_t kf_pts_pad0;
            uint64_t kf_pts_dev;
            /* Round to 64 bit alignment. */
            uint32_t kf_pts_pad1[4];
        } kf_pts;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            int32_t  kf_pid;
        } kf_proc;
    } kf_un;
    uint16_t kf_status;  /* Status flags. */
    uint16_t kf_pad1;  /* Round to 32 bit alignment. */
    int32_t
   _kf_ispare0;  /* Space for more stuff. */
    target_cap_rights_t kf_cap_rights; /* Capability rights. */
    uint64_t _kf_cap_spare; /* Space for future cap_rights_t. */
    /* Truncated before copyout in sysctl */
    char  kf_path[PATH_MAX]; /* Path to file, if any. */
};

struct target_kinfo_vmentry {
    int32_t  kve_structsize;  /* Variable size of record. */
    int32_t  kve_type;   /* Type of map entry. */
    uint64_t kve_start;   /* Starting address. */
    uint64_t kve_end;   /* Finishing address. */
    uint64_t kve_offset;   /* Mapping offset in object */
    uint64_t kve_vn_fileid;   /* inode number if vnode */
```

```
  uint32_t kve_vn_fsid_freebsd11;  /* dev_t of vnode location */
  int32_t  kve_flags;   /* Flags on map entry. */
  int32_t  kve_resident;   /* Number of resident pages. */
  int32_t  kve_private_resident;  /* Number of private pages. */
  int32_t  kve_protection;  /* Protection bitmask. */
  int32_t  kve_ref_count;   /* VM obj ref count. */
  int32_t
 kve_shadow_count;  /* VM obj shadow count. */
  int32_t  kve_vn_type;   /* Vnode type. */
  uint64_t kve_vn_size;   /* File size. */
  uint32_t kve_vn_rdev_freebsd11;  /* Device id if device. */
  uint16_t kve_vn_mode;   /* File mode. */
  uint16_t kve_status;   /* Status flags. */
#if (__FreeBSD_version >= 1300501 && __FreeBSD_version < 1400000) ||    \
  __FreeBSD_version >= 1400009
  union {
      uint64_t _kve_vn_fsid;  /* dev_t of vnode location */
      uint64_t _kve_obj;  /* handle of anon obj */
  } kve_type_spec;
#define kve_vn_fsid kve_type_spec._kve_vn_fsid
#define kve_obj  kve_type_spec._kve_obj
#else
  uint64_t kve_vn_fsid;   /* dev_t of vnode location */
#endif
  uint64_t kve_vn_rdev;   /* Device id if device. */
  int  _kve_ispare[8];  /* Space for more stuff. */
  /* Truncated before copyout in sysctl */
  char  kve_path[PATH_MAX];  /* Path to VM obj, if any. */
};

#endif /* TARGET_OS_USER_H */
```

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/*
* System call related declarations
*
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*/

#ifndef SYSCALL_DEFS_H
#define SYSCALL_DEFS_H

#include <sys/syscall.h>
#include <sys/resource.h>

#include "errno_defs.h"

#include "freebsd/syscall_nr.h"
#include "netbsd/syscall_nr.h"
#include "openbsd/syscall_nr.h"

/*
* machine/_types.h
 * or x86/_types.h
*/

/*
* time_t seems to be very inconsistly defined for the different *BSD's...
*
* FreeBSD uses a 64bits time_t except on i386
* so we have to add a special case here.
*
* On NetBSD time_t is always defined as an int64_t.  On OpenBSD time_t
* is always defined as an int.
*
*/
#if (!defined(TARGET_I386))
typedef int64_t target_time_t;
#else
typedef int32_t target_time_t;
#endif

struct target_iovec {
   abi_long iov_base;   /* Starting address */
   abi_long iov_len;   /* Number of bytes */
```

```
};

/*
* sys/ipc.h
*/
struct target_ipc_perm {
   uint32_t    cuid;       /* creator user id */
   uint32_t    cgid;       /* creator group id */
   uint32_t    uid;        /* user id */
   uint32_t    gid;        /* group id */
   uint16_t    mode;       /* r/w permission */
   uint16_t    seq;        /* sequence # */
   abi_long    key;        /* user specified msg/sem/shm key */
};

#define TARGET_IPC_RMID 0   /* remove identifier */
#define TARGET_IPC_SET
  1   /* set options */
#define TARGET_IPC_STAT 2   /* get options */

/*
* sys/shm.h
*/
struct target_shmid_ds {
   struct  target_ipc_perm shm_perm; /* peration permission structure */
   abi_ulong   shm_segsz;  /* size of segment in bytes */
   int32_t     shm_lpid;   /* process ID of last shared memory op */
   int32_t     shm_cpid;   /* process ID of creator */
   int32_t     shm_nattch; /* number of current attaches */
   target_time_t shm_atime;  /* time of last shmat() */
   target_time_t shm_dtime;  /* time of last shmdt() */
   target_time_t shm_ctime;  /* time of last change by shmctl() */
};

#define N_BSD_SHM_REGIONS   32
struct bsd_shm_regions {
   abi_long start;
   abi_long size;
};

/*
*  sys/mman.h
*/
#define TARGET_MADV_DONTNEED            4       /* dont need these pages */

#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented */
                                        /* MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100
```

```
 0x0100  /* previously unimplemented */
                                /* MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400  /* region grows down, like a */
                                /* stack */
#define TARGET_FREEBSD_MAP_NOSYNC       0x0800  /* page to but do not sync */
                                /* underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7

#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after */
                                /* exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400  /* attempt hint address, even */
                                /* within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is */
                                /* established */

#define TARGET_NETBSD_MAP_STACK         0x2000  /* allocated from memory, */

            /* swap space (stack) */

#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after */
                                /* exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100  /* for MAP_FILE, don't change */
                                /* file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, */
                                /* even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

/* XXX */
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

/*
* sys/time.h
* sys/timex.h
*/

typedef abi_long target_freebsd_suseconds_t;

/* compare to sys/timespec.h */
struct target_freebsd_timespec {
  target_time_t   tv_sec;     /* seconds */
  abi_long        tv_nsec;    /* and nanoseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
  abi_long _pad;
#endif
```

```
};

#define TARGET_CPUCLOCK_WHICH_PID   0
#define
 TARGET_CPUCLOCK_WHICH_TID   1

/* sys/umtx.h */
struct target_freebsd__umtx_time {
   struct target_freebsd_timespec  _timeout;
   uint32_t    _flags;
   uint32_t    _clockid;
};

struct target_freebsd_timeval {
   target_time_t       tv_sec; /* seconds */
   target_freebsd_suseconds_t  tv_usec;/* and microseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
   abi_long _pad;
#endif
};

/*
*  sys/resource.h
*/
#define TARGET_RLIM_INFINITY    RLIM_INFINITY

#define TARGET_RLIMIT_CPU       0
#define TARGET_RLIMIT_FSIZE     1
#define TARGET_RLIMIT_DATA      2
#define TARGET_RLIMIT_STACK     3
#define TARGET_RLIMIT_CORE      4
#define TARGET_RLIMIT_RSS       5
#define TARGET_RLIMIT_MEMLOCK   6
#define TARGET_RLIMIT_NPROC     7
#define TARGET_RLIMIT_NOFILE    8
#define TARGET_RLIMIT_SBSIZE    9
#define TARGET_RLIMIT_AS        10
#define TARGET_RLIMIT_NPTS      11
#define TARGET_RLIMIT_SWAP      12

struct target_rlimit {
   uint64_t rlim_cur;
   uint64_t rlim_max;
};

struct
 target_freebsd_rusage {
   struct target_freebsd_timeval ru_utime; /* user time used */
```

```
  struct target_freebsd_timeval ru_stime; /* system time used */
  abi_long    ru_maxrss;      /* maximum resident set size */
  abi_long    ru_ixrss;       /* integral shared memory size */
  abi_long    ru_idrss;       /* integral unshared data size */
  abi_long    ru_isrss;       /* integral unshared stack size */
  abi_long    ru_minflt;      /* page reclaims */
  abi_long    ru_majflt;      /* page faults */
  abi_long    ru_nswap;       /* swaps */
  abi_long    ru_inblock;     /* block input operations */
  abi_long    ru_oublock;     /* block output operations */
  abi_long    ru_msgsnd;      /* messages sent */
  abi_long    ru_msgrcv;      /* messages received */
  abi_long    ru_nsignals;    /* signals received */
  abi_long    ru_nvcsw;       /* voluntary context switches */
  abi_long    ru_nivcsw;      /* involuntary context switches */
};

struct
 target_freebsd__wrusage {
  struct target_freebsd_rusage wru_self;
  struct target_freebsd_rusage wru_children;
};

/*
* sys/stat.h
*/
struct target_freebsd11_stat {
  uint32_t  st_dev;       /* inode's device */
  uint32_t  st_ino;       /* inode's number */
  int16_t   st_mode;      /* inode protection mode */
  int16_t   st_nlink;     /* number of hard links */
  uint32_t  st_uid;       /* user ID of the file's owner */
  uint32_t  st_gid;       /* group ID of the file's group */
  uint32_t  st_rdev;      /* device type */
  struct  target_freebsd_timespec st_atim; /* time last accessed */
  struct  target_freebsd_timespec st_mtim; /* time last data modification */
  struct  target_freebsd_timespec st_ctim; /* time last file status change */
  int64_t    st_size;     /* file size, in bytes */
  int64_t    st_blocks;   /* blocks allocated for file */
  uint32_t   st_blksize;  /* optimal blocksize for I/O */
  uint32_t   st_flags;    /* user defined
 flags for file */
  uint32_t   st_gen;      /* file generation number */
  int32_t    st_lspare;
  struct target_freebsd_timespec st_birthtim; /* time of file creation */
  /*
   * Explicitly pad st_birthtim to 16 bytes so that the size of
   * struct stat is backwards compatible.  We use bitfields instead
```

```
    * of an array of chars so that this doesn't require a C99 compiler
    * to compile if the size of the padding is 0.  We use 2 bitfields
    * to cover up to 64 bits on 32-bit machines.  We assume that
    * CHAR_BIT is 8...
    */
   unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
   unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
} __packed;

#if defined(__i386__)
#define TARGET_HAS_STAT_TIME_T_EXT       1
#endif

struct target_stat {
   uint64_t  st_dev;              /* inode's device */
   uint64_t  st_ino;              /* inode's number */
   uint64_t  st_nlink;            /* number of hard links
 */
   int16_t   st_mode;             /* inode protection mode */
   int16_t   st_padding0;
   uint32_t  st_uid;              /* user ID of the file's owner */
   uint32_t  st_gid;              /* group ID of the file's group */
   int32_t   st_padding1;
   uint64_t  st_rdev;             /* device type */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
   int32_t   st_atim_ext;
#endif
   struct  target_freebsd_timespec st_atim; /* time of last access */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
   int32_t   st_mtim_ext;
#endif
   struct  target_freebsd_timespec st_mtim; /* time of last data modification */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
   int32_t st_ctim_ext;
#endif
   struct  target_freebsd_timespec st_ctim;/* time of last file status change */
#ifdef TARGET_HAS_STAT_TIME_T_EXT
   int32_t st_btim_ext;
#endif
   struct  target_freebsd_timespec st_birthtim;   /* time of file creation */
   int64_t   st_size;             /* file size, in bytes */
   int64_t   st_blocks;
  /* blocks allocated for file */
   uint32_t  st_blksize;          /* optimal blocksize for I/O */
   uint32_t  st_flags;            /* user defined flags for file */
   uint64_t  st_gen;              /* file generation number */
   uint64_t  st_spare[10];
};
```

```
/* struct nstat is the same as stat above but without the st_lspare field */
struct target_freebsd11_nstat {
   uint32_t  st_dev;       /* inode's device */
   uint32_t  st_ino;       /* inode's number */
   int16_t   st_mode;      /* inode protection mode */
   int16_t   st_nlink;     /* number of hard links */
   uint32_t  st_uid;       /* user ID of the file's owner */
   uint32_t  st_gid;       /* group ID of the file's group */
   uint32_t  st_rdev;      /* device type */
   struct  target_freebsd_timespec st_atim; /* time last accessed */
   struct  target_freebsd_timespec st_mtim; /* time last data modification */
   struct  target_freebsd_timespec st_ctim; /* time last file status change */
   int64_t
   st_size;     /* file size, in bytes */
   int64_t    st_blocks;   /* blocks allocated for file */
   uint32_t   st_blksize;  /* optimal blocksize for I/O */
   uint32_t   st_flags;    /* user defined flags for file */
   uint32_t   st_gen;      /* file generation number */
   struct target_freebsd_timespec st_birthtim; /* time of file creation */
   /*
    * Explicitly pad st_birthtim to 16 bytes so that the size of
    * struct stat is backwards compatible.  We use bitfields instead
    * of an array of chars so that this doesn't require a C99 compiler
    * to compile if the size of the padding is 0.  We use 2 bitfields
    * to cover up to 64 bits on 32-bit machines.  We assume that
    * CHAR_BIT is 8...
    */
   unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
   unsigned int:(8 / 2) * (16 - (int)sizeof(struct target_freebsd_timespec));
} __packed;

/*
* sys/mount.h
*/

/* filesystem id type */
typedef struct target_freebsd_fsid { int32_t
 val[2]; } target_freebsd_fsid_t;

/* filesystem statistics */
struct target_freebsd11_statfs {
   uint32_t f_version; /* structure version number */
   uint32_t f_type;    /* type of filesystem */
   uint64_t f_flags;   /* copy of mount exported flags */
   uint64_t f_bsize;   /* filesystem fragment size */
   uint64_t f_iosize;  /* optimal transfer block size */
```

```
  uint64_t f_blocks;  /* total data blocks in filesystem */
  uint64_t f_bfree;   /* free blocks in filesystem */
  int64_t  f_bavail;  /* free blocks avail to non-superuser */
  uint64_t f_files;   /* total file nodes in filesystem */
  int64_t  f_ffree;   /* free nodes avail to non-superuser */
  uint64_t f_syncwrites;  /* count of sync writes since mount */
  uint64_t f_asyncwrites; /* count of async writes since mount */
  uint64_t f_syncreads;   /* count of sync reads since mount */
  uint64_t f_asyncreads;  /* count of async reads since mount */
  uint64_t f_spare[10];   /* unused spare */

  uint32_t f_namemax; /* maximum filename length */
  uint32_t f_owner;   /* user that mounted the filesystem */
  target_freebsd_fsid_t   f_fsid; /* filesystem id */
  char     f_charspare[80];           /* spare string space */
  char     f_fstypename[16];   /* filesys type name */
  char     f_mntfromname[88];    /* mount filesystem */
  char     f_mntonname[88];      /* dir on which mounted*/
};

struct target_statfs {
  uint32_t f_version;            /* structure version number */
  uint32_t f_type;               /* type of filesystem */
  uint64_t f_flags;              /* copy of mount exported flags */
  uint64_t f_bsize;              /* filesystem fragment size */
  uint64_t f_iosize;             /* optimal transfer block size */
  uint64_t f_blocks;             /* total data blocks in filesystem */
  uint64_t f_bfree;              /* free blocks in filesystem */
  int64_t  f_bavail;             /* free blocks avail to non-superuser */
  uint64_t
 f_files;              /* total file nodes in filesystem */
  int64_t  f_ffree;              /* free nodes avail to non-superuser */
  uint64_t f_syncwrites;         /* count of sync writes since mount */
  uint64_t f_asyncwrites;        /* count of async writes since mount */
  uint64_t f_syncreads;          /* count of sync reads since mount */
  uint64_t f_asyncreads;         /* count of async reads since mount */
  uint64_t f_spare[10];          /* unused spare */
  uint32_t f_namemax;            /* maximum filename length */
  uint32_t f_owner;              /* user that mounted the filesystem */
  target_freebsd_fsid_t f_fsid;   /* filesystem id */
  char      f_charspare[80];      /* spare string space */
  char      f_fstypename[16];     /* filesystem type name */
  char      f_mntfromname[1024];  /* mounted filesystem */
  char      f_mntonname[1024];    /* directory on which mounted */
};

/* File identifier. These are unique per filesystem
```

```
 on a single machine. */
#define TARGET_MAXFIDSZ     16

struct target_freebsd_fid {
   uint16_t    fid_len;            /* len of data in bytes */
   uint16_t    fid_data0;          /* force longword align */
   char        fid_data[TARGET_MAXFIDSZ];  /* data (variable len) */
};

/* Generic file handle */
struct target_freebsd_fhandle {
   target_freebsd_fsid_t   fh_fsid;    /* Filesystem id of mount point */
   struct target_freebsd_fid fh_fid;   /* Filesys specific id */
};
typedef struct target_freebsd_fhandle target_freebsd_fhandle_t;

/*
* sys/fcntl.h
*/
#define TARGET_F_DUPFD              0
#define TARGET_F_GETFD              1
#define TARGET_F_SETFD              2
#define TARGET_F_GETFL              3
#define TARGET_F_SETFL              4
#define TARGET_F_GETOWN             5
#define TARGET_F_SETOWN             6
#define TARGET_F_OGETLK             7
#define TARGET_F_OSETLK             8
#define TARGET_F_OSETLKW            9
#define TARGET_F_DUP2FD             10
#define
 TARGET_F_GETLK             11
#define TARGET_F_SETLK              12
#define TARGET_F_SETLKW             13
#define TARGET_F_SETLK_REMOTE       14
#define TARGET_F_READAHEAD          15
#define TARGET_F_RDAHEAD            16
#define TARGET_F_DUPFD_CLOEXEC      17
#define TARGET_F_DUP2FD_CLOEXEC     18
/* FreeBSD-specific */
#define TARGET_F_ADD_SEALS          19
#define TARGET_F_GET_SEALS          20

struct target_freebsd_flock {
   int64_t l_start;
   int64_t l_len;
   int32_t l_pid;
   int16_t l_type;
```

```
  int16_t l_whence;
  int32_t l_sysid;
} QEMU_PACKED;

/* sys/unistd.h */
/* user: vfork(2) semantics, clear signals */
#define TARGET_RFSPAWN (1U << 31)

/*
* from sys/procctl.h
*/
#define TARGET_PROC_SPROTECT          1
#define TARGET_PROC_REAP_ACQUIRE      2
#define TARGET_PROC_REAP_RELEASE      3
#define TARGET_PROC_REAP_STATUS       4
#define TARGET_PROC_REAP_GETPIDS      5
#define TARGET_PROC_REAP_KILL         6

struct target_procctl_reaper_status {

  uint32_t rs_flags;
  uint32_t rs_children;
  uint32_t rs_descendants;
  uint32_t rs_reaper;
  uint32_t rs_pid;
  uint32_t rs_pad0[15];
};

struct target_procctl_reaper_pidinfo {
  uint32_t pi_pid;
  uint32_t pi_subtree;
  uint32_t pi_flags;
  uint32_t pi_pad0[15];
};

struct target_procctl_reaper_pids {
  uint32_t rp_count;
  uint32_t rp_pad0[15];
  abi_ulong rp_pids;
};

struct target_procctl_reaper_kill {
  int32_t  rk_sig;
  uint32_t rk_flags;
  uint32_t rk_subtree;
  uint32_t rk_killed;
  uint32_t rk_fpid;
  uint32_t rk_pad0[15];
```

```
};


#define safe_syscall0(type, name) \
type safe_##name(void) \
{ \
   return safe_syscall(SYS_##name); \
}

#define safe_syscall1(type, name, type1, arg1) \
type safe_##name(type1 arg1) \
{ \
   return safe_syscall(SYS_##name, arg1); \
}

#define safe_syscall2(type, name, type1, arg1, type2, arg2) \
type safe_##name(type1 arg1, type2 arg2) \
{ \
   return safe_syscall(SYS_##name, arg1, arg2); \
}

#define safe_syscall3(type,
 name, type1, arg1, type2, arg2, type3, arg3) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3) \
{ \
   return safe_syscall(SYS_##name, arg1, arg2, arg3); \
}

#define safe_syscall4(type, name, type1, arg1, type2, arg2, type3, arg3, \
   type4, arg4) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4) \
{ \
   return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4); \
}

#define safe_syscall5(type, name, type1, arg1, type2, arg2, type3, arg3, \
   type4, arg4, type5, arg5) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4, \
   type5 arg5) \
{ \
   return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4, arg5); \
}

#define safe_syscall6(type, name, type1, arg1, type2, arg2, type3, arg3, \
   type4, arg4, type5, arg5, type6, arg6) \
type safe_##name(type1 arg1, type2 arg2, type3 arg3, type4 arg4, \
   type5 arg5, type6 arg6) \
{ \
```

```
   return safe_syscall(SYS_##name, arg1, arg2, arg3, arg4, arg5, arg6); \
}

#define safe_fcntl(...)
 safe_syscall(SYS_fcntl, __VA_ARGS__)

/* So far all target and host bitmasks are the same */
#undef  target_to_host_bitmask
#define target_to_host_bitmask(x, tbl) (x)
#undef  host_to_target_bitmask
#define host_to_target_bitmask(x, tbl) (x)

#endif /* SYSCALL_DEFS_H */
#ifndef TARGET_OS_SIGNAL_H
#define TARGET_OS_SIGNAL_H

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

#define TARGET_SIGHUP  1       /* hangup */
#define TARGET_SIGINT  2       /* interrupt */
#define TARGET_SIGQUIT 3       /* quit */
#define TARGET_SIGILL  4       /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5       /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6       /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7       /* EMT instruction */
#define TARGET_SIGFPE  8       /* floating point exception */
#define TARGET_SIGKILL 9       /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10      /* bus error */
#define TARGET_SIGSEGV 11      /* segmentation violation */
#define TARGET_SIGSYS  12      /* bad argument to system call */
#define TARGET_SIGPIPE 13      /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM
 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for out if (tp->t_local&LTOSTOP) */
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF   27    /* profiling time alarm */
```

```
#define TARGET_SIGWINCH  28    /* window size changes */
#define TARGET_SIGINFO   29    /* information request */
#define TARGET_SIGUSR1   30    /* user
 defined signal 1 */
#define TARGET_SIGUSR2   31    /* user defined signal 2 */

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL         ((void (*)(int))0)
#define TARGET_SIG_IGN         ((void (*)(int))1)
#define TARGET_SIG_ERR         ((void (*)(int))-1)

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER   0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK
      1       /* block specified signal set */
#define TARGET_SIG_UNBLOCK     2       /* unblock specified signal set */
#define TARGET_SIG_SETMASK     3       /* set specified signal set */

#define TARGET_BADSIG       SIG_ERR

#define TARGET_SS_ONSTACK 0x0001 /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004 /* disable taking signals on alternate stack */

#endif /* TARGET_OS_SIGNAL_H */
/*
*  x86_64 signal definitions
*
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*/

#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)              /* min sig stack size */
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

typedef struct target_mcontext {
  abi_ulong   mc_onstack;     /* XXX - sigcontext compat. */
  abi_ulong   mc_rdi;         /* machine state (struct trapframe) */
  abi_ulong   mc_rsi;
  abi_ulong   mc_rdx;
  abi_ulong   mc_rcx;
  abi_ulong   mc_r8;
  abi_ulong   mc_r9;
  abi_ulong   mc_rax;
  abi_ulong   mc_rbx;
  abi_ulong   mc_rbp;
  abi_ulong   mc_r10;
  abi_ulong   mc_r11;
  abi_ulong   mc_r12;
  abi_ulong   mc_r13;
  abi_ulong   mc_r14;
  abi_ulong   mc_r15;
  uint32_t    mc_trapno;
  uint16_t    mc_fs;
  uint16_t    mc_gs;
  abi_ulong   mc_addr;
  uint32_t    mc_flags;
  uint16_t    mc_es;
  uint16_t    mc_ds;
  abi_ulong   mc_err;
  abi_ulong   mc_rip;
  abi_ulong   mc_cs;
  abi_ulong   mc_rflags;
```

```
   abi_ulong   mc_rsp;
   abi_ulong   mc_ss;

   abi_long    mc_len;                /* sizeof(mcontext_t) */

#define _MC_FPFMT_NODEV         0x10000 /* device not present
 or configured */
#define _MC_FPFMT_XMM           0x10002
   abi_long    mc_fpformat;
#define _MC_FPOWNED_NONE        0x20000 /* FP state not used */
#define _MC_FPOWNED_FPU         0x20001 /* FP state came from FPU */
#define _MC_FPOWNED_PCB         0x20002 /* FP state came from PCB */
   abi_long    mc_ownedfp;
   /*
    * See <machine/fpu.h> for the internals of mc_fpstate[].
    */
   abi_long    mc_fpstate[64] __aligned(16);

   abi_ulong   mc_fsbase;
   abi_ulong   mc_gsbase;

   abi_ulong   mc_xfpustate;
   abi_ulong   mc_xfpustate_len;

   abi_long    mc_spare[4];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 800
#define TARGET_UCONTEXT_SIZE 880

#include "target_os_ucontext.h"

struct target_sigframe {
   abi_ulong   sf_signum;
   abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
   abi_ulong   sf_ucontext;   /* points to sf_uc */
   abi_ulong   sf_addr;       /* undocumented 4th arg */
   target_ucontext_t   sf_uc; /* = *sf_uncontext */
   target_siginfo_t
    sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
   uint32_t    __spare__[2];
};

#endif /* TARGET_ARCH_SIGNAL_H */
TARGET_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-32bit.xml
/*
*  arm thread support
```

```
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*/

#ifndef TARGET_ARCH_THREAD_H
#define TARGET_ARCH_THREAD_H

/* Compare to arm/arm/vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUARMState *env, abi_ulong entry,
   abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
   abi_ulong
 sp;

   /*
    * Make sure the stack is properly aligned.
    * arm/include/param.h (STACKLIGN() macro)
    */
   sp = (u_int)(stack_base + stack_size) & ~0x7;

   /* sp = stack base */
   env->regs[13] = sp;
   /* pc = start function entry */
   env->regs[15] = entry & 0xfffffffe;
   /* r0 = arg */
   env->regs[0] = arg;
   env->spsr = ARM_CPU_MODE_USR;
   /*
    * Thumb mode is encoded by the low bit in the entry point (since ARM can't
    * execute at odd addresses). When it's set, set the Thumb bit (T) in the
    * CPSR.
    */
   cpsr_write(env, (entry & 1) * CPSR_T, CPSR_T, CPSRWriteByInstr);
}
```

```
static inline void target_thread_init(struct target_pt_regs *regs,
      struct image_info *infop)
{
   abi_long stack = infop->start_stack;
   memset(regs, 0, sizeof(*regs));
   regs->ARM_cpsr = ARM_CPU_MODE_USR;
   /*
    * Thumb mode is encoded by the low bit in the entry point (since ARM can't
    * execute at odd addresses). When it's set, set the Thumb
 bit (T) in the
    * CPSR.
    */
   if (infop->entry & 1) {
      regs->ARM_cpsr |= CPSR_T;
   }
   regs->ARM_pc = infop->entry & 0xfffffffe;
   regs->ARM_sp = stack;
   regs->ARM_lr = infop->entry & 0xfffffffe;
   /*
    * FreeBSD kernel passes the ps_strings pointer in r0. This is used by some
    * programs to set status messages that we see in ps. bsd-user doesn't
    * support that functionality, so it's ignored. When set to 0, FreeBSD's csu
    * code ignores it. For the static case, r1 and r2 are effectively ignored
    * by the csu __startup() routine. For the dynamic case, rtld saves r0 but
    * generates r1 and r2 and passes them into the csu _startup.
    *
    * r0 ps_strings 0 passed since ps arg setting not supported
    * r1 obj_main   ignored by _start(), so 0 passed
    * r2 cleanup    generated by rtld or ignored by _start(), so 0 passed
    */
}

#endif /* TARGET_ARCH_THREAD_H */
```

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#ifndef BSD_PROC_H_
#define BSD_PROC_H_

#include <sys/resource.h>

#include "qemu-bsd.h"
#include "gdbstub/syscalls.h"
#include "qemu/plugin.h"

extern int _getlogin(char*, int);
int bsd_get_ncpu(void);

/* exit(2) */
static inline abi_long
 do_bsd_exit(void *cpu_env, abi_long arg1)
{
   gdb_exit(arg1);
   qemu_plugin_user_exit();
   _exit(arg1);

   return 0;
}

/* getgroups(2) */
static inline abi_long do_bsd_getgroups(abi_long gidsetsize, abi_long arg2)
```

```
{
   abi_long ret;
   uint32_t *target_grouplist;
   g_autofree gid_t *grouplist;
   int i;

   grouplist = g_try_new(gid_t, gidsetsize);
   ret = get_errno(getgroups(gidsetsize, grouplist));
   if (gidsetsize != 0) {
       if (!is_error(ret)) {
           target_grouplist = lock_user(VERIFY_WRITE, arg2, gidsetsize * 2, 0);
           if (!target_grouplist) {
               return -TARGET_EFAULT;
           }
           for (i = 0; i < ret; i++) {
               target_grouplist[i] = tswap32(grouplist[i]);
           }
           unlock_user(target_grouplist, arg2, gidsetsize * 2);
       }
   }
   return ret;
}

/* setgroups(2) */
static inline abi_long do_bsd_setgroups(abi_long gidsetsize, abi_long arg2)
{
   uint32_t *target_grouplist;
    g_autofree gid_t *grouplist;
   int i;

   grouplist = g_try_new(gid_t, gidsetsize);
   target_grouplist = lock_user(VERIFY_READ, arg2, gidsetsize * 2, 1);
   if (!target_grouplist) {
       return -TARGET_EFAULT;
   }
   for (i = 0; i < gidsetsize; i++) {
       grouplist[i] = tswap32(target_grouplist[i]);
   }
   unlock_user(target_grouplist, arg2, 0);
   return get_errno(setgroups(gidsetsize, grouplist));
}

/* umask(2) */
static inline abi_long do_bsd_umask(abi_long arg1)
{
   return get_errno(umask(arg1));
}
```

```
/* setlogin(2) */
static inline abi_long do_bsd_setlogin(abi_long arg1)
{
   abi_long ret;
   void *p;

   p = lock_user_string(arg1);
   if (p == NULL) {
       return -TARGET_EFAULT;
   }
   ret = get_errno(setlogin(p));
   unlock_user(p, arg1, 0);

   return ret;
}

/* getlogin(2) */
static inline abi_long do_bsd_getlogin(abi_long arg1, abi_long arg2)
{
   abi_long ret;
   void *p;

   p = lock_user(VERIFY_WRITE, arg1, arg2, 0);
   if (p == NULL)
  {
       return -TARGET_EFAULT;
   }
   ret = get_errno(_getlogin(p, arg2));
   unlock_user(p, arg1, arg2);

   return ret;
}

/* getrusage(2) */
static inline abi_long do_bsd_getrusage(abi_long who, abi_ulong target_addr)
{
   abi_long ret;
   struct rusage rusage;

   ret = get_errno(getrusage(who, &rusage));
   if (!is_error(ret)) {
       host_to_target_rusage(target_addr, &rusage);
   }
   return ret;
}

/* getrlimit(2) */
static inline abi_long do_bsd_getrlimit(abi_long arg1, abi_ulong arg2)
```

```
{
   abi_long ret;
   int resource = target_to_host_resource(arg1);
   struct target_rlimit *target_rlim;
   struct rlimit rlim;

   switch (resource) {
   case RLIMIT_STACK:
       rlim.rlim_cur = target_dflssiz;
       rlim.rlim_max = target_maxssiz;
       ret = 0;
       break;

   case RLIMIT_DATA:
       rlim.rlim_cur = target_dfldsiz;
       rlim.rlim_max = target_maxdsiz;
       ret = 0;
       break;

   default:
       ret = get_errno(getrlimit(resource,
 &rlim));
       break;
   }
   if (!is_error(ret)) {
       if (!lock_user_struct(VERIFY_WRITE, target_rlim, arg2, 0)) {
           return -TARGET_EFAULT;
       }
       target_rlim->rlim_cur = host_to_target_rlim(rlim.rlim_cur);
       target_rlim->rlim_max = host_to_target_rlim(rlim.rlim_max);
       unlock_user_struct(target_rlim, arg2, 1);
   }
   return ret;
}

/* setrlimit(2) */
static inline abi_long do_bsd_setrlimit(abi_long arg1, abi_ulong arg2)
{
   abi_long ret;
   int resource = target_to_host_resource(arg1);
   struct target_rlimit *target_rlim;
   struct rlimit rlim;

   if (RLIMIT_STACK == resource) {
       /* XXX We should, maybe, allow the stack size to shrink */
       ret = -TARGET_EPERM;
   } else {
       if (!lock_user_struct(VERIFY_READ, target_rlim, arg2, 1)) {
```

```
            return -TARGET_EFAULT;
        }
        rlim.rlim_cur = target_to_host_rlim(target_rlim->rlim_cur);
        rlim.rlim_max = target_to_host_rlim(target_rlim->rlim_max);
         unlock_user_struct(target_rlim, arg2, 0);
        ret = get_errno(setrlimit(resource, &rlim));
    }
    return ret;
}

/* getpid(2) */
static inline abi_long do_bsd_getpid(void)
{
    return get_errno(getpid());
}

/* getppid(2) */
static inline abi_long do_bsd_getppid(void)
{
    return get_errno(getppid());
}

/* getuid(2) */
static inline abi_long do_bsd_getuid(void)
{
    return get_errno(getuid());
}

/* geteuid(2) */
static inline abi_long do_bsd_geteuid(void)
{
    return get_errno(geteuid());
}

/* getgid(2) */
static inline abi_long do_bsd_getgid(void)
{
    return get_errno(getgid());
}

/* getegid(2) */
static inline abi_long do_bsd_getegid(void)
{
    return get_errno(getegid());
}

/* setuid(2) */
static inline abi_long do_bsd_setuid(abi_long arg1)
```

```
{
   return get_errno(setuid(arg1));
}

/* seteuid(2) */
static inline abi_long do_bsd_seteuid(abi_long arg1)
{
   return get_errno(seteuid(arg1));
}

/* setgid(2) */
static inline abi_long do_bsd_setgid(abi_long arg1)
{
    return get_errno(setgid(arg1));
}

/* setegid(2) */
static inline abi_long do_bsd_setegid(abi_long arg1)
{
   return get_errno(setegid(arg1));
}

/* getpgid(2) */
static inline abi_long do_bsd_getpgid(pid_t pid)
{
   return get_errno(getpgid(pid));
}

/* setpgid(2) */
static inline abi_long do_bsd_setpgid(int pid, int pgrp)
{
   return get_errno(setpgid(pid, pgrp));
}

/* getpgrp(2) */
static inline abi_long do_bsd_getpgrp(void)
{
   return get_errno(getpgrp());
}

/* setreuid(2) */
static inline abi_long do_bsd_setreuid(abi_long arg1, abi_long arg2)
{
   return get_errno(setreuid(arg1, arg2));
}

/* setregid(2) */
static inline abi_long do_bsd_setregid(abi_long arg1, abi_long arg2)
```

```
{
  return get_errno(setregid(arg1, arg2));
}

/* setresgid(2) */
static inline abi_long do_bsd_setresgid(gid_t rgid, gid_t egid, gid_t sgid)
{
  return get_errno(setresgid(rgid, egid, sgid));
}

/* setresuid(2) */
static inline abi_long do_bsd_setresuid(uid_t ruid, uid_t euid, uid_t suid)
{
   return get_errno(setresuid(ruid, euid, suid));
}

/* getresuid(2) */
static inline abi_long do_bsd_getresuid(abi_ulong arg1, abi_ulong arg2,
      abi_ulong arg3)
{
  abi_long ret;
  uid_t ruid, euid, suid;

  ret = get_errno(getresuid(&ruid, &euid, &suid));
  if (is_error(ret)) {
        return ret;
  }
  if (put_user_s32(ruid, arg1)) {
     return -TARGET_EFAULT;
  }
  if (put_user_s32(euid, arg2)) {
     return -TARGET_EFAULT;
  }
  if (put_user_s32(suid, arg3)) {
     return -TARGET_EFAULT;
  }
  return ret;
}

/* getresgid(2) */
static inline abi_long do_bsd_getresgid(abi_ulong arg1, abi_ulong arg2,
                                abi_ulong arg3)
{
  abi_long ret;
  uid_t ruid, euid, suid;

  ret = get_errno(getresgid(&ruid, &euid, &suid));
  if (is_error(ret)) {
```

```
        return ret;
    }
    if (put_user_s32(ruid, arg1)) {
        return -TARGET_EFAULT;
    }
    if (put_user_s32(euid, arg2)) {
        return -TARGET_EFAULT;
    }
    if (put_user_s32(suid, arg3)) {
        return -TARGET_EFAULT;
    }
    return ret;
}

/* getsid(2) */
static inline abi_long do_bsd_getsid(abi_long arg1)
{
    return get_errno(getsid(arg1));
}

/* setsid(2) */
static inline abi_long do_bsd_setsid(void)
{
    return get_errno(setsid());
}

/* issetugid(2) */
static inline abi_long do_bsd_issetugid(void)
{
    return get_errno(issetugid());
}

/* profil(2) */
static inline abi_long do_bsd_profil(abi_long arg1, abi_long arg2,
                                     abi_long arg3, abi_long arg4)
{
    return -TARGET_ENOSYS;
}

/* ktrace(2) */
static inline abi_long do_bsd_ktrace(abi_long arg1, abi_long arg2,
                                     abi_long arg3, abi_long arg4)
{
    return -TARGET_ENOSYS;
}

/* utrace(2) */
static inline abi_long do_bsd_utrace(abi_long arg1, abi_long arg2)
```

```
{
   return -TARGET_ENOSYS;
}


/* ptrace(2) */
static inline abi_long do_bsd_ptrace(abi_long arg1, abi_long arg2,
       abi_long
 arg3, abi_long arg4)
{
   return -TARGET_ENOSYS;
}

/* getpriority(2) */
static inline abi_long do_bsd_getpriority(abi_long which, abi_long who)
{
   abi_long ret;
   /*
    * Note that negative values are valid for getpriority, so we must
    * differentiate based on errno settings.
    */
   errno = 0;
   ret = getpriority(which, who);
   if (ret == -1 && errno != 0) {
       return -host_to_target_errno(errno);
   }

   return ret;
}

/* setpriority(2) */
static inline abi_long do_bsd_setpriority(abi_long which, abi_long who,
                                          abi_long prio)
{
   return get_errno(setpriority(which, who, prio));
}

#endif /* !BSD_PROC_H_ */
```

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John R. Hauser
2018 January 20

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```
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*  arm signal definitions
*
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*/

#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

#define TARGET_REG_R0   0
#define TARGET_REG_R1   1
#define TARGET_REG_R2   2
#define TARGET_REG_R3   3
#define TARGET_REG_R4   4
#define TARGET_REG_R5   5
#define TARGET_REG_R6   6
#define TARGET_REG_R7
   7
#define TARGET_REG_R8   8
#define TARGET_REG_R9   9
#define TARGET_REG_R10  10
#define TARGET_REG_R11  11
#define TARGET_REG_R12  12
#define TARGET_REG_R13  13
#define TARGET_REG_R14  14
#define TARGET_REG_R15  15
#define TARGET_REG_CPSR 16
#define TARGET__NGREG   17
/* Convenience synonyms */
#define TARGET_REG_FP   TARGET_REG_R11
#define TARGET_REG_SP   TARGET_REG_R13
#define TARGET_REG_LR   TARGET_REG_R14
#define TARGET_REG_PC   TARGET_REG_R15

#define TARGET_INSN_SIZE    4       /* arm instruction size */

/* Size of the signal trampolin code. See _sigtramp(). */
#define TARGET_SZSIGCODE    ((abi_ulong)(9 * TARGET_INSN_SIZE))

/* compare to arm/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (1024 * 4)                  /* min sig stack size */
#define TARGET_SIGSTKSZ     (TARGET_MINSIGSTKSZ + 32768)  /* recommended size */

/*
* Floating point register state
*/
typedef struct target_mcontext_vfp {
   abi_ullong  mcv_reg[32];
   abi_ulong   mcv_fpscr;
```

```
} target_mcontext_vfp_t;

typedef
 struct target_mcontext {
   abi_uint    __gregs[TARGET__NGREG];

   /*
    * Originally, rest of this structure was named __fpu, 35 * 4 bytes
    * long, never accessed from kernel.
    */
   abi_ulong   mc_vfp_size;
   abi_ptr     mc_vfp_ptr;
   abi_int     mc_spare[33];
} target_mcontext_t;

#define TARGET_MCONTEXT_SIZE 208
#define TARGET_UCONTEXT_SIZE 260

#include "target_os_ucontext.h"

struct target_sigframe {
   target_siginfo_t    sf_si;  /* saved siginfo */
   target_ucontext_t   sf_uc;  /* saved ucontext */
   target_mcontext_vfp_t sf_vfp; /* actual saved VFP context */
};

#endif /* TARGET_ARCH_SIGNAL_H */
/*
* Intel general target stuff that's common to all x86_64 details
*
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*/

#ifndef TARGET_H
#define TARGET_H

/*
* x86 doesn't 'lump' the registers for 64-bit args, all args are 64 bits.
*/
static inline bool regpairs_aligned(void *cpu_env)
{
   return false;
}

#endif /* TARGET_H */
```

```
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*  FreeBSD i386 register structures
*
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*/

#ifndef TARGET_ARCH_REG_H
#define TARGET_ARCH_REG_H

/* See sys/i386/include/reg.h */
typedef struct target_reg {
  uint32_t       r_fs;
  uint32_t       r_es;
  uint32_t       r_ds;
  uint32_t       r_edi;
  uint32_t
   r_esi;
  uint32_t       r_ebp;
  uint32_t       r_isp;
  uint32_t       r_ebx;
  uint32_t       r_edx;
  uint32_t       r_ecx;
  uint32_t       r_eax;
  uint32_t       r_trapno;
  uint32_t       r_err;
  uint32_t       r_eip;
  uint32_t       r_cs;
  uint32_t       r_eflags;
  uint32_t       r_esp;
  uint32_t       r_ss;
  uint32_t       r_gs;
} target_reg_t;

typedef struct target_fpreg {
```

```
   uint32_t        fpr_env[7];
   uint8_t         fpr_acc[8][10];
   uint32_t        fpr_ex_sw;
   uint8_t         fpr_pad[64];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
{

   regs->r_fs = env->segs[R_FS].selector & 0xffff;
   regs->r_es = env->segs[R_ES].selector & 0xffff;
   regs->r_ds = env->segs[R_DS].selector & 0xffff;

   regs->r_edi = env->regs[R_EDI];
   regs->r_esi = env->regs[R_ESI];
   regs->r_ebp = env->regs[R_EBP];
   /* regs->r_isp = env->regs[R_ISP]; XXX */
   regs->r_ebx =
 env->regs[R_EBX];
   regs->r_edx = env->regs[R_EDX];
   regs->r_ecx = env->regs[R_ECX];
   regs->r_eax = env->regs[R_EAX];
   /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
   regs->r_err = env->error_code;  /* XXX ? */
   regs->r_eip = env->eip;

   regs->r_cs = env->segs[R_CS].selector & 0xffff;

   regs->r_eflags = env->eflags;
   regs->r_esp = env->regs[R_ESP];

   regs->r_ss = env->segs[R_SS].selector & 0xffff;
   regs->r_gs = env->segs[R_GS].selector & 0xffff;
}

#endif /* TARGET_ARCH_REG_H */
```

1.5554 ntpsec 1:4.2.8p15+dfsg-2~1.2.2+dfsg1-4build2

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include::include-html.ad[]

[cols="10%,90%",frame="none",grid="none",style="verse"]
|==========
|image:pic/sheepb.jpg[]|
"Clone me," says Dolly sheepishly.

|==========

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```

The
following individuals have contributed significantly to
NTPsec:

* mailto:esr@thyrsus.com[Eric S. Raymond <esr@thyrsus.com>] Massive
code reduction/refactoring/hardening, documentation cleanup and update,
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* mailto:gem@rellim.com[Gary E. Miller <gem@rellim.com>] Code
ANSIfication, testing, ntpviz
* mailto:dfranke@dfranke.us[Daniel Fox Franke <dfranke@dfranke.us>]
CVE fixes, protocol machine refactoring.
* mailto:hmurray@megapathdsl.net[Hal Murray <hmurray@megapathdsl.net>]
Code cleanups, bug hunting, sage advice.
* mailto:verm@darkbeer.org[Amar Takhar <verm@darkbeer.org>] waf build recipe.
* mailto:matthew.selsky@twosigma.com[Matt Selsky
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* mailto:karl@owl.HQ.ileaf.com[Karl Berry <karl@owl.HQ.ileaf.com>]
syslog to file option
* mailto:Marc.Brett@westgeo.com[Marc Brett
<Marc.Brett@westgeo.com>] Magnavox GPS clock driver (removed in NTPsec)
* mailto:Piete.Brooks@cl.cam.ac.uk[Piete Brooks
<Piete.Brooks@cl.cam.ac.uk>] Trimble PARSE support
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update and complete broadcast and crypto features in sntp
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<sven_dietrich@trimble.com>] Palisade reference clock driver
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in RFC 1119
* mailto:jhay@icomtek.csir.co.za[John Hay
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* mailto:davehart@davehart.com[Dave Hart <davehart@davehart.com>]

General maintenance
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* mailto:jbj@chatham.usdesign.com[Jeff Johnson
<jbj@chatham.usdesign.com>] massive prototyping overhaul
* mailto:Hans.Lambermont@nl.origin-it.com[Hans Lambermont
<Hans.Lambermont@nl.origin-it.com>] or
mailto:H.Lambermont@chello.nl[<H.Lambermont@chello.nl>] ntpsweep
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Oncore driver (Original author)
* https://www4.informatik.uni-erlangen.de/%7ekardel[Frank Kardel]
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(dot) org>] PARSE <GENERIC> (driver 14 reference clocks),
STREAMS
modules for PARSE, support scripts, syslog cleanup, dynamic interface
handling
* mailto:kuehn@ntp.org[Johannes Maximilian Kuehn <kuehn@ntp.org>]
Rewrote +sntp+ to comply with NTPv4 specification
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* mailto:mills@udel.edu[David L. Mills <mills@udel.edu>] Version 4
foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18,
19, 22, 36
* mailto:mogul@pa.dec.com[Jeffrey Mogul <mogul@pa.dec.com>] ntptrace utility
* mailto:neal@ntp.org[Rob Neal <neal@ntp.org>] config/parse code maintenance
* mailto:jack@innovativeinternet.com[Jack Sasportas

<jack@innovativeinternet.com>] Saved a Lot of space on the stuff in the
html/pic/ subdirectory
* mailto:shields@tembel.org[Michael Shields <shields@tembel.org>]
USNO clock driver
* mailto:harlan@pfcs.com[Harlan Stenn <harlan@pfcs.com>]
General maintenance (see the ChangeLog)
* mailto:ajit@ee.udel.edu[Ajit Thyagarajan <ajit@ee.udel.edu>]IP
multicast/anycast support
* mailto:brian.utterback@oracle.com[Brian Utterback
<brian.utterback@oracle.com>] General codebase
* mailto:loganaden@gmail.com[Loganaden Velvindron
<loganaden@gmail.com>] Sandboxing (libseccomp) support
* mailto:vixie@vix.com[Paul A Vixie <vixie@vix.com>] TrueTime GPS
driver, generic TrueTime clock driver

The following people contributed code to NTP Classic which has since
been removed:

* mailto:mark_andrews@isc.org[Mark Andrews <mark_andrews@isc.org>]
 Leitch atomic clock controller
* mailto:altmeier@atlsoft.de[Bernd Altmeier <altmeier@atlsoft.de>]
 hopf Elektronik serial line and PCI-bus devices
* mailto:vbais@mailman1.intel.com[Viraj
 Bais <vbais@mailman1.intel.com>] and
 mailto:kirkwood@striderfm.intel.com[Clayton Kirkwood
 <kirkwood@striderfm.intel.com>] port to WindowsNT 3.5
* mailto:michael.barone@lmco.com[Michael Barone
 <michael,barone@lmco.com>] GPSVME fixes
* mailto:greg.brackley@bigfoot.com[Greg Brackley
 <greg.brackley@bigfoot.com>] Major rework of WINNT port. Clean up
 recvbuf and iosignal code into separate modules.
* mailto:Piete.Brooks@cl.cam.ac.uk[Piete Brooks
 <Piete.Brooks@cl.cam.ac.uk>] MSF clock driver
* mailto:clift@ml.csiro.au[Steve Clift <clift@ml.csiro.au>] OMEGA clock driver
* mailto:casey@csc.co.za[Casey Crellin <casey@csc.co.za>] vxWorks
 (Tornado) port and help with target configuration
* mailto:Sven_Dietrich@trimble.COM[Sven Dietrich
 <sven_dietrich@trimble.com>] NT adj. residuals, integrated Greg's Winnt port.
* mailto:dundas@salt.jpl.nasa.gov[John A. Dundas III
 <dundas@salt.jpl.nasa.gov>] Apple A/UX port
* mailto:davehart@davehart.com[Dave Hart <davehart@davehart.com>]
  Windows port interpolation rewrite
* mailto:iglesias@uci.edu[Mike Iglesias <iglesias@uci.edu>] DEC Alpha port
* mailto:jim@jagubox.gsfc.nasa.gov[Jim Jagielski
 <jim@jagubox.gsfc.nasa.gov>] A/UX port
* mailto:kuehn@ntp.org[Johannes Maximilian Kuehn <kuehn@ntp.org>]
 +ntpq saveconfig+
* mailto:jones@hermes.chpc.utexas.edu[William L. Jones
 <jones@hermes.chpc.utexas.edu>] RS/6000 AIX modifications, HPUX
 modifications
* mailto:dkatz@cisco.com[Dave Katz <dkatz@cisco.com>] RS/6000 AIX port
* mailto:lindholm@ucs.ubc.ca[George Lindholm <lindholm@ucs.ubc.ca>]
 SunOS 5.1 port
* mailto:moeller@gwdgv1.dnet.gwdg.de[Wolfgang Moeller
 <moeller@gwdgv1.dnet.gwdg.de>] VMS port
* mailto:tmoore@fievel.daytonoh.ncr.com[Tom Moore
 <tmoore@fievel.daytonoh.ncr.com>] i386 svr4 port
* mailto:kamal@whence.com[Kamal A Mostafa <kamal@whence.com>] SCO OpenServer port
* mailto:derek@toybox.demon.co.uk[Derek Mulcahy
 <derek@toybox.demon.co.uk>] and mailto:d@hd.org[Damon Hart-Davis
  <d@hd.org>] ARCRON MSF clock driver
* mailto:neal@ntp.org[Rob Neal <neal@ntp.org>] Bancomm refclock
* mailto:Rainer.Pruy@informatik.uni-erlangen.de[Rainer Pruy

<Rainer.Pruy@informatik.uni-erlangen.de>] monitoring/trap scripts,
statistics file handling
* mailto:dirce@zk3.dec.com[Dirce Richards <dirce@zk3.dec.com>]
Digital UNIX V4.0 port
* mailto:wsanchez@apple.com[Wilfredo Snchez <wsanchez@apple.com>]
added support for NetInfo
* mailto:mrapple@quack.kfu.com[Nick Sayer <mrapple@quack.kfu.com>]
SunOS streams modules
* mailto:schnitz@unipress.com[Ray Schnitzler <schnitz@unipress.com>]
Unixware1 port
* mailto:jss@pebbles.jpl.nasa.gov[Jeff Steinman
<jss@pebbles.jpl.nasa.gov>] Datum PTS clock driver
* mailto:harlan@pfcs.com[Harlan Stenn <harlan@pfcs.com>] GNU
automake/autoconfigure makeover
* mailto:ken@sdd.hp.com[Kenneth Stone <ken@sdd.hp.com>] HP-UX port
* mailto:tsuruoka@nc.fukuoka-u.ac.jp[Tomoaki TSURUOKA
<tsuruoka@nc.fukuoka-u.ac.jp>]TRAK clock driver
* mailto:brian.utterback@oracle.com[Brian
Utterback
<brian.utterback@oracle.com>] Solaris issues
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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $

$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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History

Before (and including) argparse 1.1, the argparse package was licensed under
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After argparse 1.1, all project files from the argparse project were deleted
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The project repository then had a clean start with some files taken from
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2		2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.3	2.4.2	2006	PSF	yes
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2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
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2.3.2	2.3.1	2002-2003	PSF	yes
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2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
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2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
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2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
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2.1.1	2.1+2.0.1	2001	PSF	yes
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* Includes Sizzle.js
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* Date: 2021-03-02T17:08Z
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//! github.com/moment/moment-timezone

//! license : MIT

//! moment-timezone.js

//! moment.js

//! version : 0.5.34
// Copyright (c) The Thanos Authors.
// Licensed under the Apache License 2.0.

package main

import (
 "bytes"
 "log"
 "os"
 "path/filepath"
 "strings"
)

type copyright []byte

var (
 // thanos compatible for Go and Proto files.
 thanos copyright = []byte(`// Copyright (c) The Thanos Authors.
// Licensed under the Apache License 2.0.

`)
 cortex copyright = []byte(`// Copyright (c) The Cortex Authors.
// Licensed under the Apache License 2.0.

`)
)

func applyLicenseToProtoAndGo() error {
```

```
 return filepath.Walk(".", func(path string, info os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  // Filter out stuff that does not need copyright.
  if info.IsDir() {
   switch path {
   case "vendor":
    return filepath.SkipDir
   }
   return nil
  }
  if strings.HasSuffix(path, ".pb.go") {
   return nil
  }
  if (filepath.Ext(path) != ".proto" && filepath.Ext(path) != ".go") ||
   // We copied this file, and we want to maintain its license (MIT).
   path == "pkg/testutil/testutil.go"
||
   // Generated file.
   path == "pkg/ui/bindata.go" {
   return nil
  }

  b, err := os.ReadFile(filepath.Clean(path))
  if err != nil {
   return err
  }

  var cr copyright
  if strings.HasPrefix(path, "internal/cortex") {
   // We vendored in Cortex files, and we want to maintain its license
   cr = cortex
  } else {
   cr = thanos
  }
  if err := writeLicence(cr, path, b); err != nil {
   return err
  }
  return nil
 })
}

func writeLicence(cr copyright, path string, b []byte) error {
 if !strings.HasPrefix(string(b), string(cr)) {
  log.Println("file", path, "is missing Copyright header. Adding.")
```

```
  var bb bytes.Buffer
  _, _ = bb.Write(cr)
  _, _ = bb.Write(b)
  if err := os.WriteFile(path, bb.Bytes(), 0600); err != nil {
   return err
  }
 }
 return nil
}

func main() {
 if err := applyLicenseToProtoAndGo(); err != nil {
  log.Fatal(err)
 }
}
```

1.5559 pyyaml 6.0.3

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1.5560 runc 1.3.0

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23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jagielski <jim@jagubox.gsfc.nasa.gov> A/UX port
25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpsweep
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote sntp to comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox GPS clock driver
33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
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35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
36. [39]Danny Mayer <mayer@ntp.org>Network I/O, Windows Port, Code Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver

43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Snchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
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53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
55. [59]Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp>TRAK clock driver
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1.5573 pypng 0.20231004.0-2

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1.5576 python-augeas 0.5.0-1.1

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effectively restrict the users of a free program by obtaining a
restrictive license from a patent holder. Therefore, we insist that
any patent license obtained for a version of the library must be
consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the
ordinary GNU General Public License. This license, the GNU Lesser
General Public License, applies to certain designated libraries, and
is quite different from the ordinary General Public License. We use
this license for certain libraries in order to permit linking those
libraries into non-free programs.

When a program is linked with a library, whether statically or using
a shared library, the combination of the two is legally speaking a
combined work, a derivative of the original library. The ordinary
General Public License therefore permits
such linking only if the
entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
the library.

We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages

are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

^L

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under

copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
identifiable sections of that work are not derived from the Library,
and can
be reasonably considered independent and separate works in
themselves, then this License, and its terms, do not apply to those
sections when you distribute them as separate works. But when you
distribute the same sections as part of a whole which is a work based
on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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a storage or distribution medium does not bring the other work under
the scope of this License.

3. You may opt to apply the terms of the
ordinary GNU General Public
License instead of this License to a given copy of the Library. To do
this, you must alter all the notices that refer to this License, so
that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
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Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute

the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
^L
6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a)
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will
operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least
three years, to give the same user the materials specified in
Subsection 6a, above, for a charge no more than the cost of
performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above

specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.
^L
7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

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END OF TERMS AND CONDITIONS

^L

How to Apply These Terms to Your New Libraries

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possible use to the public, we recommend making it free software that
everyone can redistribute and change. You can do so by permitting
redistribution under these terms (or, alternatively, under the terms
of the ordinary General Public License).

To apply these terms, attach the following notices to the library.
It is safest to attach them to the start of each source file
to most
effectively convey the exclusion of warranty; and each file should
have at least the "copyright" line and a pointer to where the full
notice is found.

<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
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MA 02111-1307 USA

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or
your school, if any, to sign a "copyright disclaimer" for the library,
if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.5577 libperl5.34 5.34.0-3ubuntu1.5

1.5577.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
```

```
?S: to put public library files for the package in question.  It is most
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lib.U
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```
?RCS: $Id: Extras.U,v$
?RCS:
?RCS: Copyright (c) 2001, Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
```

```
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val="'$extras'"
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Extras.U
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```
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?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
```

```
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
fi
for file in $*; do
 case "$SRC" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
```

```
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
if
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Extract.U
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```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
```

```
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
```

```
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libnlist.U
No license file was found, but licenses were detected in source scan.

?RCS: You may redistribute only under the terms of the Artistic License,

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_mbrlen.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_gai_strerror.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/need_va_copy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/d_time.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethbynm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_flexfnam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Devel.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_voidsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_strerror.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_shm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_ndbm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_malloc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/i_machcthr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/fpostype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endsent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_time.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dlopen.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_drand48proto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_db.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitelib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_bitfield.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/fflushall.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/fpostype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_portable.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getnetprotos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/scriptdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wifstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/instubperl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isblank.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/gccvers.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setnent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_grp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ccflags.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_safemcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_access.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_stdstdio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_malloc_size.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/archname.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_madvise.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/charorder.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mallocmalloc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dosuid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dlopen.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msg.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_inttypes.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorarch.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Tr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_neterrno.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/myhostname.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cppstdin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/charorder.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_termio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sigprocmask.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/prefix.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_socket.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_wcscmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_execinfo.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtoul.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Cppsym.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_casti32.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_safebcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_vprintf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_scannl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_builtin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/i_time.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_lseekproto.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_pwd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sgndchr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Guess.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gconvert.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/floatsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Oldconfig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/intsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_casti32.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/usrinc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getspnam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_htonl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmat.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gnulibc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_isascii.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidsign.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sem.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_static_inline.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_snprintf_l.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getprpwnam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidtype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/otherlibdirs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sanemcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/i_sysaccess.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/sizesize.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mmap.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_isascii.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/i_syssecrt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setsent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_stdstdio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_vfork.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethname.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidsign.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strerror.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cpp_stuff.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_backtrace.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_grp.U

*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/selecttype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dir_dd_fd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/doublesize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endnent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/lseektype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigaction.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_gethostprotos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorbin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getsent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/gccvers.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Findhdr.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethbynm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_statblks.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Signal.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/d_times.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_shmat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_wcsxfrm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/pidtype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/orderlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strftime.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Config_sh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fd_set.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/intsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ustat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_neterrno.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorscript.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dirent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Cross.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_c99_variadic.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/cpp_stuff.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sanemcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_vfork.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_wctype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sbrkproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mprotect.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_inttypes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_mmap.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_telldirproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_eofpipe.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/charsize.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ldbl_dig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_varhdr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/voidflags.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_eofpipe.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_vprintf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_pwd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_gnulibc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sbrksmart.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/issymlink.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sunscanf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dosuid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_times.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memchr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Config_sh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/bitpbyte.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/bitpbyte.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_pthread_attr_ss.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_castneg.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/nullified/fpu.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ebcdic.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_flockproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/archlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/charsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dbminitproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/abortsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dladdr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_malloc.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sockatmarkproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socklen_t.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randfunc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_wchar.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_sethent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Oldconfig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/gidtype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endhent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/selectminbits.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/archname.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysmman.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_closedir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ccflags.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_closedir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_int64_t.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getespwnam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/inc_version_list.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/sizetype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_ndbm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/errnolist.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sockopt.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/modetype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getprotoprotos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_getpagsz.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_gconvert.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitearch.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_csh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_attribut.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scannl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/errnolist.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/i_pthread.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/mallocsrc.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_mbrtowc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_syscallproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidtype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_poll.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d__fwalk.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_strtoul.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpwent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_htonl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_db.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_fd_set.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidsize.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ptrsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/abortsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/floatsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_wcrtomb.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sgndchr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_safebcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dirfd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Tr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nanosleep.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endpent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_lchown.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_const.U
*

/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/doublesize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_usleepproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_flexfnam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libpth.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sig_name.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethname.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_open3.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_keepsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ssizetype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sresgproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/bin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/byteorder.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sigaction.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/alignbytes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_volatile.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_u32align.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lc_monetary_2008.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpagsz.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_statblks.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_snprintf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_keepsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/bin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_varhdr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_castneg.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_time.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getservprotos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/models.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/fpossize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_NOFILE.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_csh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_safemcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_socket.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_wifstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Signal.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/stdio_streams.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/nblock_io.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/alignbytes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/cppstdin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Cppsym.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/byteorder.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strctcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_netinettcp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/fpu.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_open3.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_dirent.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Guess.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_voidsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_volatile.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sresuproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_access.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_attribut.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/st_ino_def.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
```

```
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
```

```
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt="
 fi;;
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
```

```
") case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/usenm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inhdr.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
```

```
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
 set $yyy; shift; shift; yyy=$@;
done'
```

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Inhdr.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Myinit.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
```

```
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt
```

```
: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF
```

```
: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
```

```
 cd ..
 if test -r "$1"; then
  config_sh="$1"
 else
  echo "$me: cannot read config file $1."
>&2
  error=true
 fi
 cd UU
 shift;;
--help|\
-h) shift; error=true;;
-r) shift; reuseval=true;;
-s) shift; silent=true; realsilent=true;;
-E) shift; alldone=exit;;
-K) shift; knowitall=true;;
-O) shift;;
-S) shift; silent=true; extractsh=true;;
-D)
 shift
 case "$1" in
 *=)
  echo "$me: use '-U symbol=', not '-D symbol='." >&2
  echo "$me: ignoring -D $1" >&2
  ;;
 *=*) echo "$1" | \
   sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
 *) echo "$1='define'" >> optdef.sh;;
 esac
 shift
 ;;
-U)
 shift
 case "$1" in
 *=) echo "$1" >> optdef.sh;;
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
    shift
    xxx=''
    yyy="$1"
    zzz=''
```

```
  uuu=undef
  case "$yyy" in
      *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
          case "$zzz" in
          *:*) zzz=" ;;
          *)   xxx=append

          zzz=" "`echo "$yyy"|sed 's!^[^=]*=!!'`
              yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
          esac
          ;;
      esac
      case "$xxx" in
      ")  case "$yyy" in
          *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
              yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
              zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
              yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
          *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
              yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
          esac
          ;;
      esac
  case "$xxx" in
  append)
echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
  clear)
echo "$yyy=""   >> posthint.sh ;;
  define)
     case "$zzz" in
") zzz=define ;;
esac
echo "$yyy='$zzz'"  >> posthint.sh ;;
  eval)
echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
  prepend)
echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
  undef)

    case "$zzz" in
") zzz="$uuu" ;;
esac
echo "$yyy=$zzz"  >> posthint.sh ;;
      *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
  esac
  shift
  ;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
```

```
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
            [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
      -D symbol              symbol gets the
 value 'define'
      -D symbol='some value'   symbol is set to 'some value'
     common used examples (see INSTALL for more info):
      -Duse64bitint          use 64bit integers
      -Duse64bitall          use 64bit integers and pointers
      -Dusethreads           use thread support
      -Dinc_version_list=none  do not include older perl trees in @INC
      -DEBUGGING=none        DEBUGGING options
      -Dcc=gcc               choose your compiler
      -Dprefix=/opt/perl5    choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
      -U symbol    symbol gets the value 'undef'
      -U symbol=   symbol gets completely empty
     e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
 have been applied:
      -A append:symbol=value   append value to symbol
      -A symbol=value          like append:, but with a separating space
      -A define:symbol=value   define symbol to have value
      -A clear:symbol          define symbol to be ''
      -A define:symbol         define symbol to be 'define'
      -A eval:symbol=value     define symbol to be eval of value
      -A prepend:symbol=value  prepend value to symbol
      -A undef:symbol          define symbol to be 'undef'
```

```
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
            -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
```

```
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir="
```

```
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
") vendorman1dir="
 vendorman1direxp="
 ;;
*) : determine where vendor-supplied manual pages go.
 case "$vendorman1dir" in
 ") dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
```

```
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir=''
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp=''
?S:html1direxp:
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir=''
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
''|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '
```

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
 case "$xxx" in
 x)
  echo "No dbm library found." >&4
  libdbm=''
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:

```
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. Currently, the "perlbug" program included with perl
will send mail to this address in addition to perlbug@perl.org. You may
enter "none" for no administrator.

EOM
case "$perladmin" in
") dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Head.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
```

```
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
```

```
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
 tval=false;
 if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
```

```
  $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
  $rm_try;
 fi;
else
 echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
 $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
 $rm_try;
fi;
;;
*)
case "$tval" in
$define) tval=true;;
*) tval=false;;
esac;
;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
?S:etcexp:
```

```
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:23:06  ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1  1993/08/24  12:24:43  ram
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
```

```
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
```

```
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
?X: VOS: path component separator is >
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
```

```
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name=''
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d ""\`
```

```
 case "\$name" in
 *[/\\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
```

```
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn_v7ND.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
?T:ans
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
```

```
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
```

```
*"ln"*" -s:"*"test -"?)
 echo "Creating the symbolic links..." >&4
 echo "(First creating the subdirectories...)" >&4
 cd ..
 awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
  sort -u | while true
 do
  read dir
  test -z "$dir" && break
  ./UU/mkdirp $dir 2>/dev/null
  if test -d $dir; then
   : ok
  else
   echo "Failed to create '$dir'.  Aborting." >&4
   exit 1
  fi
 done
 echo "(Now creating the symlinks...)" >&4
 awk '{print $1}' $src/MANIFEST | while true; do
  read filename
  test -z "$filename" && break
  if test -f $filename; then
   if $issymlink $filename; then
    rm -f $filename
   fi
  fi
  if test -f $filename; then
   echo "$filename already exists, not symlinking."
  else
?X: Note that the following works because "$pkgsrc" is absolute
    ln
 -s $pkgsrc/$filename $filename
  fi
 done
?X: Check that everything was correctly copied
 echo "(Checking current directory...)" >&4
 cd UU
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for filelist in x??; do
  (cd ..; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  echo "Failed duplication of source tree.  Aborting." >&4
  exit 1
```

```
   fi
   ;;
  *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
   ;;
  esac
  ;;
 esac
 ;;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Mksymlinks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:12  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:10  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble usequadmath
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
```

```
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs="
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version,
 if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
```

```
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted
 socks5 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
case "$usequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound=''
libsfiles=''
libsdirs=''
libspath=''
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx=''
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib.$so
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib$thislib$_a
```

```
        $test -f "$xxx"
 && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
  $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
  xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)." ;;
  static) echo "Found -l$thislib." ;;
  *)      echo "Found -l$thislib ($libstyle)." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*);;
  *) dflt="$dflt -l$thislib"
                libsfound="$libsfound $xxx"
                yyy=`basename $xxx`
                libsfiles="$libsfiles $yyy"
                yyy=`echo $xxx|$sed -e
 "s%/$yyy\\$%%"`
                case " $libsdirs " in
                *" $yyy "*) ;;
                *) libsdirs="$libsdirs $yyy" ;;
                esac
    ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
```

```
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
```

```
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
 $cat <<
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dlext.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
```

```
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/AAAAA.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
```

```
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
 *) _a="$lib_ext" ;;
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
```

```
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
") case "$path_sep" in
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
```

```
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perl5.U,v $
?RCS:
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?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
```

```
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/perl5.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
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?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
```

```
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Compile.U
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```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir=''
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
'') vendorman3dir=''
 vendorman3direxp=''
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 '') dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
```

```
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorman3dir.U
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Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_unistd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sjis2jis.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dlerror.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systimeb.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgctl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkostemp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ctermid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_internet.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fchown.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_newsadm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_popen.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setregid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setsid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wait4.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysndir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mkdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/vaproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_hidnet.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_readdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bsdjmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_nolnbuf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_inetd.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_seteuid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysfile.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cppfilecom.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getwd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setlocale.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdint.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_truncate.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ftime.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_munmap.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_xdrs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strxfrm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getppid.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_fcntl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_cbrt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_regcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_siglist.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wait3.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setrgid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ffs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chroot.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtod.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mkfifo.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mbstowcs.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strchr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strdup.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_accept4.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/compiler_warning.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syssock.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dbm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/filexp_path.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bcopy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ckeypad.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_SHM_MAC.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_su_chown.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_readlink.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mbtowc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_linuxstd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_alarm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_symlink.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rdchk.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fcntl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_killpg.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rename.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_raster.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_syslog.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigblock.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_niin.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtol.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syswait.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syspoll.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_stat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmdt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Loc_sed.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fmod.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_vfork.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_PORTAR.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fork.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgrp2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pread.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Prefixit.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_flock.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Assert.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ftrncate.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_normsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setreuid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_system.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pause.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysioctl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systable.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Getfile.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_umask.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rmdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_math.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fchmod.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dup2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_syscall.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systwgcf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_stddef.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_waitpid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysun.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pathconf.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_psignal.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semctl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysparam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_link.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_stdlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getgrps.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setgrps.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strccmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bzero.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_values.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pidcheck.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_usendir.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysresrc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mktime.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getopt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msem_lck.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systypes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dlfcn.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setruid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_pipe2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_charsprf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_memory.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/locdist.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fsetpos.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strstr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Obsol_h.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_select.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_usleep.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sfio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pwrite.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmctl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_gdbm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tzmin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_preadv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msync.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgsnd.U
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 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/basicshell.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semop.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tminsys.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tzname.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sighold.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_inetaton.U
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 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semget.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scorfl.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tcstpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strcspn.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dld.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rusage.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_termio.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Magic_h.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pwritev.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_difftime.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_itimer.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_poll.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_table.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memset.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memmove.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgrp2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wcstombs.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgget.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_whoami.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strcoll.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_crypt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysselct.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_brokstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setprior.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sbrk.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_havetlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ulimit.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chown.U
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 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_locale.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getprior.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_nice.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sysconf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_lstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_float.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ipc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cpp_trad.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_stdlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_cuserid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/defeditor.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ilp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setegid.U
*

/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgrcv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/groupstype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_lockf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pipe.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Obsol_sh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtok.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_utime.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dbl_dig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigvec.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setlnbuf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scandir.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memalign.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_regex.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_string.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systimes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getlogin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigsetmk.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wctomb.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_locconv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_NeWS.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_limits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
```

```
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lseektype.U?RCS: Id

/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/maildir.U?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mailer.U?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mailfile.U?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/make.U?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mallocsrc.U?RCS:
Id
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/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mansrc.U?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mboxchar.U?RCS: $Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mkdep.U?RCS:
$Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/models.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/modetype.U?RCS: Id
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/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/n.U?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nametype.U?RCS: $Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nblock_io.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/newslib.U?RCS:
$Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/newsspool.U?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nis.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nlist_pfx.U?RCS: $Id: nlist_pfx.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/orderlib.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/orgname.U?RCS: $Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/packadmin.U?RCS:
$Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/package.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pager.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/patchlevel.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/perlpath.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pidtype.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pkgsrc.U?RCS: $Id: pkgsrc.U 1
2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prefix.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prefshell.U?RCS: $Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/privlib.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prototype.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ptrsize.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/randbits.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/randfunc.U?RCS:
Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/rcs_branch.U?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/registers.U?RCS: $Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/rootid.U?RCS: $Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sbrksmart.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sbrktype.U?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/scriptdir.U?RCS:
Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/selecttype.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/sh.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/shm_for.U?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sig_name.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sitearch.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sitelib.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sizetype.U?RCS:
Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/so.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sockopt.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/spitshell.U?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/src.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ssizetype.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/startperl.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/startsh.U?RCS:
$Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/stdchar.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sunscanf.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sysman.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/trnl.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/uidtype.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usenm.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usesocks.U?RCS:
Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usrinc.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/vaproto.U?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/voidflags.U?RCS: Id

/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/warnflags.U?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/yacc.U?RCS: Id
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex#!/usr/bin/perl
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.rules;##
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl/*
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp#!/usr/bin/perl
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C/*
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C/*
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C/*
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C/*
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C/*
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.SH#
 $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.a# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk# $Id: errnolist.mk,v 3.0.1.1 1994/01/24 13:59:32 ram Exp ram $
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/makedepend.SHcase $CONFIG in
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/makedir.SHcase
 $CONFIG in
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss#!/usr/bin/perl
/opt/cola/permits/2650668976_1759155092.3304586/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
```

```
?X:
?X: This unit produces a bit of shell code that must be dotted in order
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
'') ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
      echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      despair=yes
      trygcc=yes
```

```
      case "$cc" in
      *gcc*) trygcc=no ;;
      esac
      case "`$cc -v -c try.c 2>&1`" in

     *gcc*) trygcc=no ;;
      esac
      if $test X"$trygcc" = Xyes; then
         if gcc -o try -c try.c; then
            echo " "
            echo "You seem to have a working gcc, though." >&4
            rp="Would you like to use it?"
            dflt=y
            if $test -f myread; then
               . ./myread
            else
               if $test -f UU/myread; then
                  . ./UU/myread
               else
                  echo "Cannot find myread, sorry.  Aborting." >&2
                  exit 1
               fi
            fi
            case "$ans" in
            [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                  $cat *.cbu >checktmp 2>/dev/null
                  if $contains ccflags checktmp >/dev/null; then

      ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                  fi;;
            esac
         fi
      fi
   fi
   $rm -f try try.*
   ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
$startsh
EOS
```

```
cat <<'EOSC' >>checkcc
case "$cc" in
") ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
      if $test X"$despair" = Xyes; then
         echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      fi
      $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
      exit 1
   fi

 $rm -f try try.*
   ;;
esac
EOSC
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Checkcc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
```

```
?Y:TOP
?D:siteman3dir=''
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp=''
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir=''
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
'') dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteman3dir.U

No license file was found, but licenses were detected in source scan.

```
/* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*/
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
```

```
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
") _a='.a';;
esac
case "$_o" in
") _o='.o';;
esac

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

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?RCS: You may distribute under the terms of either the GNU General Public

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sigsetjmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_passwd.U
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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
```

```
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Oldsym.U

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```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
```

```
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_who.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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```

```
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
```

```
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
```

```
 ") ;;
 *) ans="";
  case "\$silent-\$rp" in
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans="";;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=""; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
```

```
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
   esac
   $myecho
   ans=!
   ;;
  esac;;
 *)
  case "\$aok" in
  y)
   echo "*** Substitution done -- please confirm."
   xxxm="\$ans"
   ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
   xxxm="\$ans"
   ans=!
   ;;
  *)
   echo "*** Error -- try again."
   ans=!
   ;;
  esac
  $myecho
  ;;
 esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
  ;;
 esac
done
```

```
case "\$ans" in
") ans="\$xxxm";;
esac
EOSC
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
```

```
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames="
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
```

```
") ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
```

```
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
```

```
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt="
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM
```

```
None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
```

```
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
```

```
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com=''
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed
 -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
```

```
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if
    bld t $libc | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo
 "Ok." >&4
   else
    echo "That didn't work either." >&4
    echo "No problem, I'll be compiling test programs then..." >&4
    runnm=false
   fi
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libc.U
No license file was found, but licenses were detected in source scan.

?RCS: Id

```
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml3dir=''
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp=''
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir=''
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
```

```
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
```

```
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
```

```
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
override=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
```

```
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift; override=true;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/\'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
 -U)
  shift
  case "$1" in
  *=) echo "$1" >> optdef.sh;;
```

```
 *=*)
  echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
  echo "$me: ignoring -U $1" >&2
  ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append
                  zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
             esac
             ;;
        esac
   case "$xxx" in
   append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
 echo "$yyy=''"   >> posthint.sh ;;
   define)
       case "$zzz" in
 '') zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
   eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
```

```
    prepend)
  echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
    undef)
        case "$zzz" in
  ")
 zzz="$uuu" ;;
  esac
  echo "$yyy=$zzz"  >> posthint.sh ;;
          *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
        -D symbol         symbol gets the value 'define'
        -D symbol=value
   symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
        -U symbol    symbol gets the value 'undef'
        -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
        -A clear:symbol  define symbol to be "
  -A define:symbol  define symbol to be 'define'
```

```
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
  -A undef:symbol=  define symbol to be ''
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
```

```
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
```

```
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable '"$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
```

```
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
```

```
 ;;
esac
. ./myread
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 ") dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix="
 case "$vendorprefix" in
 ") ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix="
 vendorprefixexp="
 ;;
esac
```

Found in path(s):
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
```

```
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
```

```
 fi;
done;
for file in $create; do
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
```

```
   sh <"$src/$file"
   ;;
  esac
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
```

```
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
```

```
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables.  This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
?S:
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
```

```
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
```

```
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
 "$perl_patchlevel" in
0|'') ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
?RCS: patch49: created
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
```

```
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
```

```
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
```

```
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
```

```
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/nullified/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1999, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
```

```
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman3dir=''
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
```

```
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
```

```
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
'') man3dir=' '
 installman3dir='';;
esac

: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 '') case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
```

```
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
```

```
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
```

```
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'
```

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

```
/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
```

```
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx
 $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
```

```
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$_grep
;;
esac
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$_cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$_gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into
```

```
 your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible.  In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c=";;
esac
cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built
 in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:47:29  ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
```

```
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin=''
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitebin=''
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
'') dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
   recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
```

```
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
```

```
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
```

```
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
```

```
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
```

```
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
```

```
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
```

```
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Mkdirp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
```

```
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
```

```
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Chk_MANI.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
```

```
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM

On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
```

```
set d_libname_unique
eval $setvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/so.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).
```

```
EOM
 case "$installprefix" in
 ") dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.

EOM
 case "$installprefix" in
 ") dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
```

```
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
```

```
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
 cf_email="$ans"
 case "$cf_email" in
 *@*.*) cont=" ;;
 *)
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
```

```
done

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
```

```
;;
") xxx=`./loc $file $file $pth`;;
*)
 xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$grep
;;
esac
@if less
case "$less" in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
echo "Substituting less -R for less."
less="$less -R"
_less=$less
fi
;;
esac
@end
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$cp
;;
esac
@end
```

```
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely
 GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
```

```
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible.  In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c=";;
esac
cat
 <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
```

```
esac'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
case "$cc" in
```

```
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"

: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
```

```
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
```

```
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
```

```
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
```

```
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
```

```
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth=''
?INIT:
: Set private lib path
case "$plibpth" in
'') if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist='';;
'') dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth=''
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM
case "$libpth" in
'') dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
```

```
none) libpth=' ';;
*) libpth="$ans";;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libpth.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
```

```
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/yacc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
```

```
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.

EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
```

```
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/installstyle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
```

```
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

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Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you installed dist). It will then recurse through the 'U' subdirectory and find any additional "private" units. Private units override standard ones supplied with metaconfig.

Files in this directory:

README
  This file.

Glossary.patch
  The standard dist units contain some strings that make pod2man complain. This patch silences those warnings. As new units are added and Configure is regenerated, this patch may need more and more 'fuzz' to be applied. It should be freshly regenerated every once in a while. See also mkgloss.pl

ln-all.pl
  Re-generate the all/ folder

mkglossary
  A script
 to regenerate Porting/Glossary. You have to manually edit the top of the script to point the location of your metaconfig units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
  A perl script that calls U/mkglossary from the perl source tree, sorts the list of symbols, and applies the patch mentioned in Glossary.patch. When called on its own, redirect the output to a temporary file, and compare that file to Porting/Glossary before applying.

mksample
  A script to regenerate Porting/config.sh and Porting/config.H. It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following directories.

a_dvisory/
  These are units that have to go first in the generated config_h.SH. A word of explanation: Configure and config_h.SH are generated from 'Units' (the *.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies.

However, config_h.SH
is simply built by putting all the units in alphabetical order and
extracting the relevant lines. (This could be fixed, I suppose, but
it wasn't trivial the one time I looked.)
The a_dvisory/ directory, then, is a place to put units that need
to be early in config_h.SH. (Most units are self-contained
and ought to be able to go anywhere. However, some things, like
byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules
that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the
new Compile.U unit. (The ccflags.U unit is perl-specific since it
mentions -DDEBUGGING and
-DPOSIX_SOURCE, but that's the only place
it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution. They have already been applied
to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under
either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and
related issues.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

nullified/
These are null units that replace units in the standard
distribution. Typically they are there because some part of the

perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding
unit.

perl/
These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/README
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
```

```
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
```

```
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/inc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
EOSC
chmod +x installprefix
$eunicefix installprefix
```

```
: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
```

```
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
```

```
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Chk_whoami.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
```

```
$rm -f blurfl sym
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
```

```
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
```

```
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
```

```
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx=''
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
   $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
   if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
```

```
  then
   linkmsg=""
  else
   linkmsg=" but I can't link against it"
  fi
  case "$libstyle" in
  shared) echo "Found -l$thislib (shared)$linkmsg." ;;
  static) echo "Found -l$thislib$linkmsg." ;;
  *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*) ;;
  *)
   case "$linkmsg" in
   ")
    dflt="$dflt -l$thislib"
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
    case " $libsdirs
 " in
    *" $yyy "*) ;;
    *) libsdirs="$libsdirs $yyy" ;;
    esac
      ;;
   esac
   ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac
$rm -f lt.c lt
```

```
$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libs.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
 chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source
directory. This will create a directory
'U' under the perl5
sources. That directory will contain the metaconfig units for perl5.
This will also create two files in the perl5 source tree:
MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
(This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
regenerate the .package file. IMPORTANT: Change the name and
address of the maintainer to your own name and address. I don't
want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

metalint (or mlint)

and repair every failure it reports.

7. From your main perl5 source directory, run

metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70
location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
of the Porting/
subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample;
see Porting/pumpkin.pod instead for current documentation on its
use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
start with the randfunc.U unit included here. It's currently
broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/

This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

compline/

These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. I have submitted these for inclusion into the regular dist distribution. (The ccflags.U unit is actually perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/

These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution.

modified/

These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

perl/

These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/

These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/

These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes. I have submitted these for inclusion into the regular dist distribution.

target/

This is the very, very beginning of cross-compiler support. It doesn't work yet, and many standard units will need modification.

typedefs/

These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.) I have submitted these for inclusion into the

regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/README.dist
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
?S: This
```

```
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
```

```
?MAKE:versionONLY: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versionONLY
?Y:TOP
?S:versionONLY:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versionONLY is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versionONLY" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versionONLY
eval $setvar

case "$versionONLY" in
"$define") inc_version_list=''
           inc_version_list_init=0
          ;;
```

esac

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/versiononly.U
No license file was found, but licenses were detected in source scan.

?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS: You may distribute under the terms of either the GNU General Public

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/multiarch.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_portable.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/privlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/startperl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlpath.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/archlib.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6 1995/02/15 14:09:30 ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5 1994/10/29 15:53:14 ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4 1994/05/06 14:19:37 ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3 1993/10/16 13:46:09 ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
 Revision 3.0.1.2 1993/09/13 15:45:26 ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1 1993/08/30 08:55:59 ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:

```
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
 dflt="
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick="
 case "$ans" in
 ") ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac

: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
```

```
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
 dflt=y
 case "$silent" in
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.
```

```
EOM
fi
if $test -f UU/config.msg; then
   echo "Hmm.  I also noted the following information while running:"
   echo " "
   $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
```

```
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
  ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libyacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_builtin_overflow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
```

```
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp=''
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir=''
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
```

```
?LINT:set sitehtml1direxp
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
")
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
prefixvar=sitehtml1dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitehtml1dir.U
No license file was found, but licenses were detected in source scan.

```
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
```

```
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
```

```
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
```

```
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
  echo "lex library found in $xxx." >&4
```

```
  libflex="$xxx"
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libflex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may distribute under the terms of either the GNU General Public
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_round.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_finite.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_frexpl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isless.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lrint.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlxv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strerror_l.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_j0.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_newlocale.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclass.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_inetpton.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_memrchr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fchdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_off64_t.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbnl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlxvf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_srand48_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getnetent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_signbit.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sitecustomize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setnetent_r.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nextafter.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_socks5_init.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_longdbl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkstemps.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmnt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_tmpnam_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_faststdio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lroundl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclassl.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_acosh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoll.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setproctitle.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usemultiplicity.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/defaultincdot.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ualarm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_cmsghdr_s.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getlogin_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_memmem.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_futimes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nl_langinfo.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmax.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lround.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoq.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogbl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/ebcdic/ebcdic.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getpwent_r.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/atolf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getfsstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getspnam_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mntent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_pthrattrj.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_accessx.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysmode.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_class.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_towupper.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_shadow.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/longdblfio.U
*
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_bfd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethbyad.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ustat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getenv_thread.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostbyname_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sunmath.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_syslog.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fseeko.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llroundl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setvbuf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkdtemp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hypot.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fp_classl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_poll.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpwent.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_srandom_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usedefaultstrict.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endpwent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_aintl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getgrnam_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_statfs_s.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:

```
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
```

```
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorhtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
```

```
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*""\$"'/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
  esac
 fi
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
```

```
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Filexp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
```

```
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/kernel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir="
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
```

```
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp=''
?S:html3direxp:
?S: This variable
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir=''
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
'') html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/html3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
") dflt=$prefix ;;
```

```
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix=''
case "$siteprefix" in
'') ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
```

```
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
```

```
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
 rp='Manually specify a return address to use:'
 . ./myread
```

```
 case "$ans" in
 none|*@*.*)
  case "$ans" in
  none) usermail='-';;
  *) usermail="$ans";;
  esac
  ;;
 *)
  echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
  usermail='-'
  mailpatches=false
  notifypatches=false
  ;;
 esac
 echo " "
 opt=''
 rp='Would you like to have new patches automatically mailed to you?'
 case "$mailpatches" in
 true) dflt=y;;
 *) dflt=n;;
 esac
 . ./myread
 case "$ans" in
 [yY]*) opt=' mailpatches'; mailpatches=true;;
 *)
  mailpatches=false
  echo " "
  rp='Ok, would you like to simply be notified of new patches?'
  case "$notifypatches" in
  false) dflt=n;;
  *) dflt=y;;
  esac
  . ./myread
  echo " "
  case "$ans" in
  [yY]*) opt=' notifypatches'; notifypatches=true;;
  *)
   echo "Fine, I'll simply say that you've tried it then."
   notifypatches=false
   ;;
  esac
  ;;
```

```
 esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>

$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
```

```
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
```

```
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
 get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
```

```
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
```

```
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
```

```
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
```

```
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
```

```
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
```

```
then
 nm_opt='-p'
 eval $xrun
else
 echo " "
 echo "$nm didn't seem to work right. Trying $ar instead..." >&4
 com=''
 if $ar t $libc > libc.tmp && \
  $contains '^fprintf$' libc.tmp >/dev/null 2>&1
 then
  for thisname in $libnames $libc; do
   $ar t $thisname >>libc.tmp
  done
  $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
  echo
"Ok." >&4
 elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
  for thisname in $libnames $libc; do
   $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
   emximp -o tmp.imp $thisname \
       2>/dev/null && \
       $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
       < tmp.imp >>libc.tmp
   $rm -f tmp.imp
  done
  $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
  echo "Ok." >&4
 else
  echo "$ar didn't seem to work right." >&4
  echo "Maybe this is a Cray...trying bld instead..." >&4
  if  bld t $libc | \
   $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
   $test -s libc.list
  then
   for thisname in $libnames; do
    bld t $libnames | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
    $ar t $thisname >>libc.tmp
   done
   echo "Ok." >&4
  else
   echo
"That didn't work either.  Giving up." >&4
   exit 1
  fi
```

```
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ...">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
```

```
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
```

```
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript=''
?S:sitescript:
```

```
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitescriptexp="
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript="
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
```

```
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
```

```
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Instruct.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp=''
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir=''
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
'') dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
```

```
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
```

```
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file initializes certain default variables
```

```
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?S:_exe (exe_ext):
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
```

```
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
 _exe=""
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
```

```
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
@if installdir
creatdir="
@end
case
 "$install" in
")
 tryit="
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\$1 -d foo/bar
@end
$mkdir d
```

```
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
   creatdir="$prog -d"
  fi
@end
  (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
  if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
   $contains 'rwxrw-r--' tryno.ls &&
 \
   $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
  then
   dflt="$prog"
   echo "ok, that will do."
   break
  fi
  echo "not good$either."
  either=' either'
  $rm -f try*.ls
 done
 $rm -rf foo d tryinst try try*.ls try.*
 case "$dflt" in
 '')
@if {test -f ../install.SH}
  echo "Hopefully, $package comes with its own install script!"
  dflt='./install'
@else
  dflt='install'
@end
  ;;
 esac
 ;;
*) dflt="$install";;
esac
$cat <<EOM

I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.
```

```
If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end

EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir="
```

```
  fi
  ;;
 esac
fi
$rm
-rf foo
case "$creatdir" in
")
 echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
 echo "You can thank $package for bringing you its own install script!"
 installdir='./install -d'
@else
 echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
 installdir=mkdir
@end
 ;;
*) installdir="$creatdir";;
esac
;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
```

```
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
   ;;
*) case "$usedl" in
   $define|true|[yY]*)
     set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
     shift
     perllibs="$*"
     ;;
   *) perllibs="$libs"
     ;;
   esac
   ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
```

```
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
```

```
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
 vendorhtml1direxp="
 ;;
*) : determine where vendor-supplied html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 ") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998, Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?X:
```

```
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U
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```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
```

```
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir="
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
 For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
```

```
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
 ;;
esac
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 '') case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
```

```
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/man1dir.U
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```
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?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U

1.5578 libldap-2.5-0 2.5.19+dfsg-0ubuntu0.22.04.1

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file_io/unix/mktemp.c, strings/apr_strings.c:

```
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```
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From strings/apr_strnatcmp.c,
include/apr_strings.h:

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From
strings/apr_snprintf.c:

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1.5580 python-pkg-resources 59.6.0-1.2ubuntu0.22.04.3

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This package was debianized by Matthias Klose <doko@debian.org> on
Tue, 14 Dec 2004 12:45:14 +0100.

It was downloaded from
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--- a/setuptools/dist.py
+++ b/setuptools/dist.py
@@ -208,7 +208,7 @@ def write_pkg_file(self, file): # noqa:
    if self.long_description_content_type:
        write_field('Description-Content-Type', self.long_description_content_type)
    if self.provides_extras:
-        for extra in self.provides_extras:
+   for extra in sorted(self.provides_extras):
            write_field('Provides-Extra', extra)

    self._write_list(file, 'License-File', self.license_files or [])

1.5581 perl-modules-5.34 5.34.0-3ubuntu1.5

1.5581.1 Available under license :

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?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lib libexp: Getfile
 Loc Oldconfig Prefixit Prefixup prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?S:lib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public library files for the package in question.  It is most
?S: often a local directory such as /usr/local/lib. Programs using this
?S: variable must be prepared to deal with filename expansion.
?S:.
?S:libexp:
?S: This variable is the same as the lib variable, but is filename expanded
?S: at configuration time, for convenient use in your makefiles.
?S:.
: determine where public libraries go
set lib lib
eval $prefixit
case "$lib" in
```

```
")
 dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
 set dflt
 eval $prefixup
 ;;
*)  dflt="$lib";;
esac
echo " "
fn=d~
rp='Where do you want to put the public libraries?'
. ./getfile
lib="$ans"
libexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lib.U
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```
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?RCS:
?MAKE:extras: Myread Oldconfig Setvar rm
?MAKE: -pick add $@ %<
?Y:TOP
?S:extras:
?S: This variable holds a list of extra modules to install.
?S:.
: See if we want extra modules installed
echo " "
case "$extras" in
") dflt='n';;
*) dflt='y';;
esac
cat <<EOM
Perl can be built with extra modules or bundles of modules which
will be fetched from the CPAN and installed alongside Perl.

Notice that you will need access to the CPAN; either via the Internet,
or a local copy, for example a CD-ROM or a local CPAN mirror.  (You will
be asked later to configure the CPAN.pm module which will in turn do
the installation of the rest of the extra modules or bundles.)

Notice also that if the modules require
```

```
 any external software such as
libraries and headers (the libz library and the zlib.h header for the
Compress::Zlib module, for example) you MUST have any such software
already installed, this configuration process will NOT install such
things for you.

If this doesn't make any sense to you, just accept the default '$dflt'.
EOM
rp='Install any extra modules (y or n)?'
. ./myread
case "$ans" in
y|Y)
 cat <<EOM

Please list any extra modules or bundles to be installed from CPAN,
with spaces between the names.  The names can be in any format the
'install' command of CPAN.pm will understand.  (Answer 'none',
without the quotes, to install no extra modules or bundles.)
EOM
 rp='Extras?'
 dflt="$extras"
 . ./myread
 extras="$ans"
esac
case "$extras" in
"|'none')
 val=''
 $rm -f ../extras.lst
 ;;
*) echo "(Saving the list of extras for later...)"
 echo "$extras" > ../extras.lst
 val="'$extras'"
 ;;
esac
set extras
eval $setvar
echo " "
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Extras.U
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```

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?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running Configure from a remote directory ($src
 is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: Mkdirp src
?MAKE: -pick add $@ %<
?F:./extract
?T:CONFIG SRC dir file
: script used to extract .SH files with variable substitutions
cat >extract <<EOS
CONFIG=true
SRC="$src"
EOS
cat >>extract <<'EOS'
echo "Doing variable substitutions on .SH files..."
if test -f "$SRC/MANIFEST"; then
 set x `awk '{print $1}' <$SRC/MANIFEST | grep '\.SH'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$SRC"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$SRC"; echo *.SH)`; shift;;
esac
if test ! -f "$SRC/$1"; then
 shift
fi
for file in $*; do
 case "$SRC" in
```

```
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd $dir && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause
 the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   ./mkdirp $dir
   sh <"$SRC/$dir/$file"
   ;;
  *)
   sh <"$SRC/$file"
   ;;
  esac
  ;;
 esac
done
if
 test -f "$SRC/config_h.SH"; then
 if test ! -f config.h; then
```

```
?X: oops, they left it out of MANIFEST, probably, so do it anyway.
  sh <"$SRC/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Extract.U
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```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " "
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action."
```

```
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
chmod +x contains
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/contains.U
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```
?RCS: $Id: libnlist.U 1 2006-08-24 12:32:52Z rmanfredi $
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnlist.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:02  ram
?RCS: patch61: added usrinc and mips on the dependency line
?RCS: patch61: make sure we call ./mips
?RCS: patch61: added a ?LINT: hint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:00  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnlist: Loc libpth Guess usrinc _a
?MAKE: -pick add $@ %<
?S:libnlist (libmld):
?S: This variable contains the name of the library required to
 get the
?S: definition of the nlist() function.  On a MIPS RISC/OS box, it is -lmld.
?S: Under Sys Vr4, it is -lelf.  Otherwise, its value is empty.
?S:.
?T:xxx
?LINT:use usrinc
: see if we need a special library for 'nlist()'
echo " "
: How about doing this if nlist is not in libc...
if ./mips ; then
 libnlist='-lmld'
else
 xxx=`./loc libelf$_a x $libpth`
 case "$xxx" in
 x)  ;;
```

```
 *)
  libnlist="$xxx"
  ;;
 esac
fi
case "$libnlist" in
") echo "No special library for nlist() seems necessary." >&4
 ;;
*)  echo "nlist() can be found in $libnlist." >&4
 ;;
esac
```

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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libnlist.U
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```
?RCS: $Id: usenm.U,v 3.0.1.1 1997/02/28 16:26:40 ram Exp $
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?RCS:
?RCS: $Log: usenm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:26:40  ram
?RCS: patch61: don't use nm with the GNU C library
?RCS: patch61: added support for Linux shared libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:usenm runnm nm_opt nm_so_opt: cat test Myread Oldconfig myuname grep \
 nm d_gnulibc osname egrep rsrc
?MAKE: -pick add $@ %<
?S:usenm:
?S: This variable contains 'true' or 'false' depending
 whether the
?S: nm extraction is wanted or not.
?S:.
?S:runnm:
?S: This variable contains 'true' or 'false' depending whether the
?S: nm extraction should be performed or not, according to the value
?S: of usenm and the flags on the Configure command line.
?S:.
?S:nm_opt:
```

```
?S: This variable holds the options that may be necessary for nm.
?S:.
?S:nm_so_opt:
?S: This variable holds the options that may be necessary for nm
?S: to work on a shared library but that can not be used on an
?S: archive library.  Currently, this is only used by Linux, where
?S: nm --dynamic is *required* to get symbols from an ELF library which
?S: has been stripped, but nm --dynamic is *fatal* on an archive library.
?S: Maybe Linux should just always set usenm=false.
?S:.
: see if nm is to be used to determine whether a symbol is defined or not
?X: If there is enough inquiries, it might be worth to wait for the nm
?X: extraction. Otherwise, the C compilations might be a better deal.
?X:
?X: Don't bother if we're
 using GNU libc -- skimo
?LINT:extern PASE
case "$usenm" in
")
 dflt="
 case "$d_gnulibc" in
 "$define")
  echo " "
  echo "nm probably won't work on the GNU C Library." >&4
  dflt=n
  ;;
 esac
 case "$dflt" in
 ")
  if $test "$osname" = aix -a "X$PASE" != "Xdefine" -a ! -f /lib/syscalls.exp; then
   echo " "
   echo "Whoops!  This is an AIX system without /lib/syscalls.exp!" >&4
   echo "'nm' won't be sufficient on this system." >&4
   dflt=n
  fi
  ;;
 esac
 case "$dflt" in
 ") dflt=`$egrep 'inlibc|csym' $rsrc/Configure | wc -l 2>/dev/null`
  if $test $dflt -gt 20; then
   dflt=y
  else
   dflt=n
  fi
  ;;
 esac
 ;;
*)
```

```
 case "$usenm" in
 true|$define) dflt=y;;
 *) dflt=n;;
 esac
 ;;
esac
$cat <<EOM

I can use $nm to extract the symbols from your C libraries. This
is a time consuming task which may generate huge output on the disk (up
to 3 megabytes) but that should make the symbols extraction faster. The
alternative is to skip the 'nm' extraction part and to compile a small
test
 program instead to determine whether each symbol is present. If
you have a fast C compiler and/or if your 'nm' output cannot be parsed,
this may be the best solution.

You probably shouldn't let me use 'nm' if you are using the GNU C Library.

EOM
rp="Shall I use $nm to extract C symbols from the libraries?"
. ./myread
case "$ans" in
[Nn]*) usenm=false;;
*) usenm=true;;
esac

?X: Name extraction is to be run if 'nm' usage is wanted and if no -r flag
?X: was provided to configure (in which case we simply re-use the previous
?X: values).
runnm=$usenm
case "$reuseval" in
true) runnm=false;;
esac

: nm options which may be necessary
case "$nm_opt" in
") if $test -f /mach_boot; then
  nm_opt=" # Mach
 elif $test -d /usr/ccs/lib; then
  nm_opt='-p' # Solaris (and SunOS?)
 elif $test -f /dgux; then
  nm_opt='-p' # DG-UX
 elif $test -f /lib64/rld; then
  nm_opt='-p' # 64-bit Irix
 else
  nm_opt="
 fi;;
```

```
esac

: nm options which may be necessary for shared libraries but illegal
: for archive
 libraries.  Thank you, Linux.
case "$nm_so_opt" in
") case "$myuname" in
 *linux*|gnu*)
  if $nm --help | $grep 'dynamic' > /dev/null 2>&1; then
   nm_so_opt='--dynamic'
  fi
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/usenm.U
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```
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?RCS:
?RCS: $Log: Inhdr.U,v $
?RCS: Revision 3.0.1.2  1995/05/12  12:01:31  ram
?RCS: patch54: deleted tabs that caused some /bin/sh to core dump (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:55:01  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks wether a set of header files exists or not.
?X: If the first header is not
 found, the function tries to locate
?X: the next header, and so on, until one is found or there is no
?X: more header in the list.
?X:
?X: To use it, say:
```

```
?X: set header i_header [ header2 i_header2 ... ]
?X: eval $inhdr
?X:
?MAKE:Inhdr: test Findhdr Whoa
?MAKE: -pick add $@ %<
?LINT:define inhdr
?V:inhdr
?S:inhdr:
?S: This shell variable is used internally by Configure to check
?S: wether a set of headers exist or not. A typical use is:
?S:  set header i_header [ header2 i_header2 ... ]
?S:  eval $inhdr
?S: That will print a message, saying wether header was found or not
?S: and set i_header* accordingly. If the first header is not found,
?S: we try the next one, until the list is empty or one is found.
?S:.
?T:xxx xxf var td xxnf tu yyy instead was cont
: define an alternate in-header-list? function
inhdr='echo " "; td=$define; tu=$undef; yyy=$@;
cont=true; xxf="echo \"<\$1> found.\" >&4";
case $# in 2) xxnf="echo \"<\$1> NOT found.\" >&4";;
*) xxnf="echo \"<\$1> NOT found, ...\" >&4";;
esac;
case
 $# in 4) instead=instead;; *) instead="at last";; esac;
while $test "$cont"; do
 xxx=`./findhdr $1`
 var=$2; eval "was=\$$2";
 if $test "$xxx" && $test -r "$xxx";
 then eval $xxf;
?X: Next line shifted left 1 tabstop to avoid sh core dump on MachTen 2.1.1.
 eval "case \"\$$var\" in $undef) . ./whoa; esac"; eval "$var=\$td";
  cont="";
 else eval $xxnf;
?X: Likewise, the next line has been shifted left 1 tabstop -- ADO, 08/03/95
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu"; fi;
 set $yyy; shift; shift; yyy=$@;
 case $# in 0) cont="";;
 2) xxf="echo \"but I found <\$1> $instead.\" >&4";
  xxnf="echo \"and I did not find <\$1> either.\" >&4";;
 *) xxf="echo \"but I found <\$1\> instead.\" >&4";
  xxnf="echo \"there is no <\$1>, ...\" >&4";;
 esac;
done;
?X: Remaining values are set to 'undef'
while $test "$yyy";
do set $yyy; var=$2; eval "was=\$$2";
 eval "case \"\$$var\" in $define) . ./whoa; esac"; eval "$var=\$tu";
```

```
 set $yyy; shift; shift; yyy=$@;
done'

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Inhdr.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Myinit.U,v 3.0 1993/08/18 12:05:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before any Configure switch processing.
?X:
?MAKE:Myinit
 libswanted: Init
?MAKE: -pick add $@ %<
?S:libswanted:
?S: This variable holds a list of all the libraries we want to
?S: search.  The order is chosen to pick up the c library
?S: ahead of ucb or bsd libraries for SVR4.
?S:.
?LINT:extern usevfork glibpth
?LINT:change usevfork glibpth
: List of libraries we want.
?X: Put crypt here, even though I should really fix d_crypt.U to look
?X: for it correctly, including possible shared library versions.
: If anyone needs extra -lxxx, put those in a hint file.
libswanted="cl pthread socket bind inet nsl ndbm gdbm dbm db malloc dl ld"
libswanted="$libswanted sun m crypt sec util c cposix posix ucb bsd BSD"
: We probably want to search /usr/shlib before most other libraries.
: This is only used by the lib/ExtUtils/MakeMaker.pm routine extliblist.
glibpth=`echo " $glibpth " | sed -e 's! /usr/shlib ! !'`
```

```
glibpth="/usr/shlib $glibpth"
: Do not use vfork unless overridden by a hint file.
usevfork=false
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Options.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS:
 patch49: this unit now exports file optdef.sh, not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
```

```
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options:
 startsh
?MAKE: -pick wipe $@ %<
?V:reuseval alldone error realsilent silent extractsh fastread \
 knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp ccflags
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X:
 to worry too much.
cat > cmdline.opt <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
```

```
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c]
 = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str, 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
   next;
  }
 }
}
```

```
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prepended to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
```

```
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1."
 >&2
   error=true
  fi
  cd UU
  shift;;
 --help|\
 -h) shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/\'"\'"/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
 -U)
  shift
  case "$1" in
  *=) echo "$1" >> optdef.sh;;
  *=*)
   echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
   echo "$me: ignoring -U $1" >&2
   ;;
  *) echo "$1='undef'" >> optdef.sh;;
  esac
  shift
```

```
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append

             zzz=' '`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
             esac
             ;;
        esac
   case "$xxx" in
   append)
echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
echo "$yyy=''"   >> posthint.sh ;;
   define)
       case "$zzz" in
'') zzz=define ;;
esac
echo "$yyy='$zzz'"  >> posthint.sh ;;
   eval)
echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
   prepend)
echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
   undef)

     case "$zzz" in
'') zzz="$uuu" ;;
esac
```

```
 echo "$yyy=$zzz"  >> posthint.sh ;;
        *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
 -V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
 --) break;;
 -*) echo "$me: unknown option $1" >&2; shift; error=true;;
 *) break;;
 esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol               symbol gets the
 value 'define'
       -D symbol='some value'   symbol is set to 'some value'
     common used examples (see INSTALL for more info):
       -Duse64bitint           use 64bit integers
       -Duse64bitall           use 64bit integers and pointers
       -Dusethreads            use thread support
       -Dinc_version_list=none  do not include older perl trees in @INC
       -DEBUGGING=none         DEBUGGING options
       -Dcc=gcc                choose your compiler
       -Dprefix=/opt/perl5      choose your destination
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : ignored for backward compatibility
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
     e.g.:  -Uversiononly
 -A : manipulate symbol after the platform specific hints
 have been applied:
       -A append:symbol=value   append value to symbol
       -A symbol=value          like append:, but with a separating space
```

```
        -A define:symbol=value   define symbol to have value
        -A clear:symbol          define symbol to be ''
        -A define:symbol         define symbol to be 'define'
        -A eval:symbol=value     define symbol to be eval of value
        -A prepend:symbol=value  prepend value to symbol
        -A undef:symbol          define symbol to be 'undef'
        -A undef:symbol=         define symbol to be ''
      e.g.:  -A prepend:libswanted='cl pthread '
             -A ccflags=-DSOME_MACRO
 -V : print version number and exit (with a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and
 cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true) exec 1>/dev/null;;
```

```
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
?X: -q is POSIX
?X: It does not work in SysV (solaris) or old BSD greps.
grep '\\' optdef.sh >/dev/null 2>&1
if test $? = 0; then
   echo "Configure does not support \\
 in -D arguments"
   exit 1
fi
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
touch posthint.sh
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman1dir vendorman1direxp installvendorman1dir: man1dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman1dir:
?S: This variable contains the name of the directory for man1
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
```

```
?S:.
?S:vendorman1direxp:
?S: This variable is the ~name expanded version of vendorman1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman1dir=''
?S:installvendorman1dir:
?S: This variable is really the same as vendorman1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman1dir
: Set the vendorman1dir variables
case "$vendorprefix" in
'') vendorman1dir=''
 vendorman1direxp=''
 ;;
*) : determine where vendor-supplied manual pages go.
 case "$vendorman1dir" in
 '') dflt=`echo "$man1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorman1dir ;;
 esac
 case "$dflt" in
 '|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname for
 the vendor-supplied manual section 1 pages?'
 . ./getfile
 vendorman1dir="$ans"
 vendorman1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman1dir" = "X" && vendorman1dir=' '
prefixvar=vendorman1dir
. ./installprefix
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:     You may distribute under the terms of either the GNU General Public
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_portable.U

```
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/archlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/startperl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlpath.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/multiarch.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/privlib.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: html1dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html1dir.U,v $
?RCS:
?MAKE:html1dir html1direxp installhtml1dir: cat Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup
?MAKE: -pick add $@ %<
?Y:TOP
?D:html1dir="
?S:html1dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe whole programs, not libraries or modules.  It
?S: is intended to correspond roughly to section 1 of the Unix
?S: manuals.
?S:.
?D:html1direxp="
?S:html1direxp:
?S: This
 variable is the same as the html1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml1dir="
?S:installhtml1dir:
?S: This variable is really the same as html1direxp, unless you are
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html1direxp
?LINT:set installhtml1dir
: determine where html pages for programs go
set html1dir html1dir none
```

```
eval $prefixit
$cat <<EOM

If you wish to install html files for programs in $spackage, indicate
the appropriate directory here.  To skip installing html files,
answer "none".
EOM
case "$html1dir" in
"|none|$undef|' ') dflt=none ;;
*) dflt=$html1dir ;;
esac
fn=dn+~
rp="Directory for the main $spackage html pages?"
. ./getfile
prefixvar=html1dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html1dir" = "X" && html1dir=' '

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/html1dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Configdir.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Configdir.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  14:58:36  ram
?RCS: patch61: have README explicitly mention the package name
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:49  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Configdir: package
?MAKE: -pick add $@ %<
: create .config dir to save info across Configure sessions
test -d ../.config || mkdir ../.config
cat >../.config/README <<EOF
This directory created by Configure to save
```

```
 information that should
persist across sessions for $package.

You may safely delete it if you wish.
EOF
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Configdir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libdbm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libdbm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:56:57  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:58  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libdbm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libdbm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the dbm library routines.  If there is no dbm or ndbm
?S: library, it is null.
?S:.
?T:xxx
:
 see if we should include -ldbm
echo " "
if $test -r /usr/lib/libndbm$_a || $test -r /usr/local/lib/libndbm$_a ; then
 echo "-lndbm found." >&4
 libdbm='-lndbm'
elif $test -r /usr/lib/libdbm$_a || $test -r /usr/local/lib/libdbm$_a ; then
 echo "-ldbm found." >&4
 libdbm='-ldbm'
else
 xxx=`./loc libdbm$_a x $libpth`
 case "$xxx" in
 x)
```

```
  echo "No dbm library found." >&4
  libdbm=''
  ;;
 *)
  echo "DBM library found in $xxx." >&4
  libdbm="$xxx"
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libdbm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?MAKE:perladmin: cf_email Oldconfig Myread cat
?MAKE: -pick add $@ %<
?Y:TOP
?S:perladmin:
?S: Electronic mail address of the perl5 administrator.
?S:.
: Ask e-mail of administrator
$cat <<EOM

If you or somebody else will be maintaining perl at your site, please
fill in the correct e-mail address here so that they may be contacted
if necessary. Currently, the "perlbug" program included with perl
will send mail to this address in addition to perlbug@perl.org. You may
enter "none" for no administrator.

EOM
case "$perladmin" in
'') dflt="$cf_email";;
*) dflt="$perladmin";;
esac
rp='Perl administrator e-mail address'
. ./myread
perladmin="$ans"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perladmin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: contains.U 1 2006-08-24 12:32:52Z rmanfredi $
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: contains.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:35  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:contains: Nothing
?MAKE: -pick add $@ %<
?S:contains:
?S: This variable holds the command to do a grep with a proper return
?S: status.  On most sane systems it is simply "grep".  On insane systems
?S: it is a grep followed by a cat followed by a test.  This variable
?S: is primarily for the use of other Configure units.
?S:.
: Some
 greps do not return status, grrr.
echo "grimblepritz" >grimble
if grep blurfldyick grimble >/dev/null 2>&1 ; then
 contains=contains
elif grep grimblepritz grimble >/dev/null 2>&1 ; then
 contains=grep
else
 contains=contains
fi
rm -f grimble
: the following should work in any shell
case "$contains" in
contains*)
 echo " " >&4
 echo "AGH!  Grep doesn't return a status.  Attempting remedial action." >&4
 cat >contains <<'EOSS'
grep "$1" "$2" >.greptmp && cat .greptmp && test -s .greptmp
EOSS
contains=./contains
chmod +x $contains
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/contains.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Csym.U,v 3.0.1.4 1995/07/25 13:36:29 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision
 3.0.1.1  1993/08/25  14:00:05  ram
?RCS: patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym mistrustnm extern_C: Options contains libc libs runnm test \
 +cc +optimize +ccflags +ldflags run rm_try _exe d_cplusplus
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?LINT:extern mistrustnm
?LINT:set mistrustnm
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: whether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?S:extern_C:
?S: ANSI C
```

```
 requires 'extern' where C++ requires 'extern "C"'. This
?S: variable can be used in Configure to do the right thing.
?S:.
?S:mistrustnm:
?S: This variable can be used to establish a fallthrough for the cases
?S: where nm fails to find a symbol.  If usenm is false or usenm is true
?S: and mistrustnm is false, this variable has no effect.  If usenm is true
?S: and mistrustnm is "compile", a test program will be compiled to try to
?S: find any symbol that can't be located via nm lookup.  If mistrustnm is
?S: "run", the test program will be run as well as being compiled.
?S:.
?V:csym
?T:tval tx tlook tf tdc
?F:!try
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tdc="";;
-a) tf=libc.tmp; tdc="[]";;
*) tlook="^$1\$"; tf=libc.list; tdc="()";;
esac;
case "$d_cplusplus" in
   $define) extern_C="extern \"C\"" ;;
   *)  extern_C="extern" ;;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx"
 in
yes)
?X:
?X: Put symbol inside a printf to fool optimizing compilers...
?X:
?X: We use 'short' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'short' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lives so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the compile test, in case the 'short'
?X: trick is obsoleted by future gcc releases). -- RAM
```

```
?X:
 tval=false;
 if $test "$runnm" = true; then
  if $contains $tlook $tf >/dev/null 2>&1; then
   tval=true;
  elif $test "$mistrustnm"
 = compile -o "$mistrustnm" = run; then
   echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
   $cc -o try $optimize $ccflags $ldflags try.c >/dev/null 2>&1 $libs && tval=true;
   $test "$mistrustnm" = run -a -x try && { $run ./try$_exe >/dev/null 2>&1 || tval=false; };
   $rm_try;
  fi;
 else
  echo "$extern_C void *$1$tdc; void *(*(p()))$tdc { return &$1; } int main(int argc, char **argv) { if(p() && p() !=
(void *)argv[0]) return(0); else return(1); }"> try.c;
  $cc -o try $optimize $ccflags $ldflags try.c $libs >/dev/null 2>&1 && tval=true;
  $rm_try;
 fi;
 ;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;
 ;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: afs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: afs.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:23:06  ram
?RCS: patch61: can now explicitly tell Configure whether AFS is running
?RCS:
?RCS: Revision 3.0.1.1  1993/08/24  12:24:43  ram
```

```
?RCS: patch3: created
?RCS:
?MAKE:afs afsroot: test
?MAKE: -pick add $@ %<
?S:afs:
?S: This variable is set to 'true' if AFS (Andrew File System) is used
?S: on the system, 'false' otherwise.  It is possible to override this
?S: with a hint value or command line option,
 but you'd better know
?S: what you are doing.
?S:.
?S:afsroot:
?S: This variable is by default set to '/afs'. In the unlikely case
?S: this is not the correct root, it is possible to override this with
?S: a hint value or command line option.  This will be used in subsequent
?S: tests for AFSness in the configure and test process.
?S:.
: allow them to override the AFS root
case "$afsroot" in
") afsroot=/afs ;;
*) afsroot=$afsroot ;;
esac

: is AFS running?
echo " "
case "$afs" in
$define|true) afs=true ;;
$undef|false) afs=false ;;
*) if $test -d $afsroot; then
  afs=true
 else
  afs=false
 fi
 ;;
esac
if $afs; then
 echo "AFS may be running... I'll be extra cautious then..." >&4
else
 echo "AFS does not seem to be running..." >&4
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/afs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: etc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: etc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:etc etcexp: Getfile Loc Oldconfig
?MAKE: -pick add $@ %<
?S:etc:
?S: This variable holds the name of the directory in which the user wants
?S: to put "administrative" executable images for the package in question.
?S: It is most often a local directory such as /usr/local/etc. Programs
?S: relying on this variable must be prepared to deal with
 ~name
?S: substitutions.
?S:.
?S:etcexp:
?S: This is the same as the etc variable, but is filename expanded at
?S: configuration time, for convenient use in makefiles.
?S:.
: determine where administrative executables go
case "$etc" in
")
 dflt=`./loc . /local/etc /usr/local/etc /local/etc /usr/etc /etc`
 ;;
*)
 dflt="$etc"
 ;;
esac
fn=d~
rp='Where should the administrative executables go?'
. ./getfile
etc="$ans"
etcexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/etc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Thomas Neumann <tom@smart.bo.open.de>
?RCS:
?RCS: $Log: Findhdr.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:53:08  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:56  ram
?RCS: patch23: cppminus must be after other cppflags, not before
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a findhdr script which is used to locate the header
?X: files
 in $usrinc or other stranger places using cpp capabilities. The
?X: script is given an include file base name, like 'stdio.h' or 'sys/file.h'
?X: and it returns the full path of the include file and a zero status or an
?X: empty string with an error status if the file could not be located.
?X:
?MAKE:Findhdr: grep test tr rm +usrinc awk cat startsh \
 cppstdin cppminus +cppflags eunicefix osname
?MAKE: -pick add $@ %<
?LINT:define fieldn
?S:fieldn:
?S: This variable is used internally by Configure. It contains the position
?S: of the included file name in cpp output. That is to say, when cpp
?S: pre-processes a #include <file> line, it replaces it by a # line which
?S: contains the original position in the input file and the full name of
?S: included file, between "quotes".
?S:.
?V:fieldn
?F:./findhdr !fieldn
?T:cline pos wanted name awkprg cppfilter testaccess status usrincdir
: determine filename position in cpp output
echo " "
echo "Computing filename position in cpp output for #include
 directives..." >&4
echo '#include <stdio.h>' > foo.c
case "$osname" in
vos)
 testaccess=-e
```

```
?X: VOS: path component separator is >
 cppfilter="tr '\\\\>' '/' |"
 ;;
*)
 testaccess=-r
 cppfilter="
 ;;
esac
$cat >fieldn <<EOF
$startsh
$cppstdin $cppflags $cppminus <foo.c 2>/dev/null | \
$grep '^[  ]*#.*stdio\.h' | \
while read cline; do
 pos=1
 set \$cline
 while $test \$# -gt 0; do
  if $test $testaccess \`echo \$1 | $tr -d ""\`; then
   echo "\$pos"
   exit 0
  fi
  shift
  pos=\`expr \$pos + 1\`
 done
done
EOF
chmod +x fieldn
fieldn=`./fieldn`
$rm -f foo.c fieldn
case $fieldn in
") pos='???';;
1) pos=first;;
2) pos=second;;
3) pos=third;;
*) pos="${fieldn}th";;
esac
echo "Your cpp writes the filename in the $pos field of the line."

?X: To locate a header file, we cannot simply check for $usrinc/file.h, since
?X: some machine have the headers in weird places and our only hope is that
?X: the C pre-processor will know how to find those headers. Thank you NexT!
: locate header file
$cat
 >findhdr <<EOF
$startsh
wanted=\$1
name="
for usrincdir in $usrinc; do
 if test -f \$usrincdir/\$wanted; then
```

```
  echo "\$usrincdir/\$wanted"
  exit 0
 fi
done
awkprg='{ print \$$fieldn }'
echo "#include <\$wanted>" > foo\$\$.c
$cppstdin $cppminus $cppflags < foo\$\$.c 2>/dev/null | \
$cppfilter $grep "^[  ]*#.*\$wanted" | \
while read cline; do
 name=\`echo \$cline | $awk "\$awkprg" | $tr -d ""\`
 case "\$name" in
 *[/\\\]\$wanted) echo "\$name"; exit 1;;
 *[\\\/]\$wanted) echo "\$name"; exit 1;;
 *) exit 2;;
 esac
done
?X: status = 0: grep returned 0 lines, case statement not executed
?X: status = 1: headerfile found
?X: status = 2: while loop executed, no headerfile found
status=\$?
$rm -f foo\$\$.c
if test \$status -eq 1; then
 exit 0
fi
exit 1
EOF
chmod +x findhdr
$eunicefix findhdr
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Findhdr.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7ND.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7ND.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:46  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:18  ram
```

```
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit warns V7 sites that they may not have a non-blocking read.
?X: This unit needs to be mentioned in End.U to get included.
?X:
?MAKE:Warn_v7ND: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7; then
 cat
 <<EOM

NOTE: many V7 systems do not have a way to do a non-blocking read.  If you
don't have any of FIONREAD, O_NDELAY, or rdchk(), the $package package
may not work as well as it might.  It might not work at all.
EOM
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn_v7ND.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libnm.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libnm.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:08:26  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:01  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libnm: test Loc libpth _a
?MAKE: -pick add $@ %<
?S:libnm:
?S: This variable contains the argument to pass to the loader in order
?S: to get the new math library routines.  If there is no new math
?S: library, it is null.
?S:.
?T:ans
```

```
?O:
 use libswanted='-lnm' instead (see libs.U).
: see if we should include -lnm
echo " "
if $test -r /usr/lib/libnm$_a || $test -r /usr/local/lib/libnm$_a ; then
 echo "New math library found." >&4
 libnm='-lnm'
else
 ans=`./loc libnm$_a x $libpth`
 case "$ans" in
 x)
  echo "No nm library found--the normal math library will have to do." >&4
  libnm=''
  ;;
 *)
  echo "New math library found in $ans." >&4
  libnm="$ans"
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libnm.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit allows the duplication of the source tree to the current
?X: directory via symbolic links.  This must be requested explicitly
?X: by them issuing a -Dmksymlinks on the command line.
?X:
?MAKE:Mksymlinks: Mkdirp lns issymlink src rsrc pkgsrc
?MAKE: -pick add $@ %<
?F:!UU
?T: dir filename tmppwd filelist
?LINT:extern mksymlinks
@if {test -f ../MANIFEST}
```

```
: Duplicate the tree with symbolic links if -Dmksymlinks was supplied
case "$mksymlinks"
 in
$define|true|[yY]*)
 echo " "
 case "$src" in
 "|'.') echo "Cannot create symlinks in the original directory." >&4
  exit 1
  ;;
 *) case "$lns:$issymlink" in
  *"ln"*" -s:"*"test -"?)
   echo "Creating the symbolic links..." >&4
   echo "(First creating the subdirectories...)" >&4
   cd ..
   awk '{print $1}' $src/MANIFEST | grep / | sed 's:/[^/]*$::' | \
    sort -u | while true
   do
    read dir
    test -z "$dir" && break
    ./UU/mkdirp $dir 2>/dev/null
    if test -d $dir; then
     : ok
    else
     echo "Failed to create '$dir'.  Aborting." >&4
     exit 1
    fi
   done
   echo "(Now creating the symlinks...)" >&4
   awk '{print $1}' $src/MANIFEST | while true; do
    read filename
    test -z "$filename" && break
    if test -f $filename; then
     if $issymlink $filename; then
      rm -f $filename
     fi
    fi
    if test -f $filename; then
     echo "$filename already exists, not symlinking."
    else
?X: Note that the following works because "$pkgsrc" is absolute
     ln
 -s $pkgsrc/$filename $filename
    fi
   done
?X: Check that everything was correctly copied
   echo "(Checking current directory...)" >&4
   cd UU
   awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
```

```
    (split -l 50 2>/dev/null || split -50)
   rm -f missing
   tmppwd=`pwd`
   for filelist in x??; do
    (cd ..; ls `cat "$tmppwd/$filelist"` \
     >/dev/null 2>>"$tmppwd/missing")
   done
   if test -s missing; then
    echo "Failed duplication of source tree.  Aborting." >&4
    exit 1
   fi
   ;;
  *) echo "(I cannot figure out how to do symbolic links, ignoring!)" >&4
   ;;
  esac
  ;;
 esac
 ;;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Mksymlinks.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_group.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_group.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:34:52  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:07:48  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
```

?LINT:empty

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_group.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: h_fcntl.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_fcntl.U,v $
?RCS: Revision 3.0 1993/08/18 12:08:12 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_fcntl: Nothing
?MAKE: -pick add $@ %<
?S:h_fcntl:
?S: This is variable gets set in various places to tell i_fcntl that
?S: <fcntl.h> should be included.
?S:.
: Initialize h_fcntl
h_fcntl=false

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/h_fcntl.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Null.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Null.U,v $
?RCS: Revision 3.0 1993/08/18 12:05:10 ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:

```
?X: This unit ends up producing shell code to set all variables to ".  This
?X: probably isn't necessary, but I'm paranoid.  About certain things.
?X:
?MAKE:Null: Head
?MAKE: -pick add.Null $@ %<
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Null.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libs.U,v 3.0.1.6 1997/02/28 16:09:11 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30:
 undone patch23 for libswanted default setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs ignore_versioned_solibs libsfound libsfiles libsdirs libspath: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 usesocks sed uselongdouble usequadmath
```

```
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This
 variable holds the directory names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:ignore_versioned_solibs:
?S: This variable should be non-empty if non-versioned shared
?S: libraries (libfoo.so.x.y) are to be ignored (because they
?S: cannot be linked against).
?S:.
?T:xxx yyy thislib thisdir libswanted libstyle
?D:libs=''
?X:
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatibility
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version,
 if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
```

```
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: default library list
?INIT:libswanted="
?INIT:: some systems want to use only the non-versioned libso:s
?INIT:ignore_versioned_solibs="
?LINT:extern usecbacktrace
?LINT:extern libscheck
?LINT:extern p
?LINT:use uselongdouble
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted
 socks5 socks5_sh" ;;
esac
case "$usecbacktrace" in
"$define") libswanted="$libswanted bfd" ;;
esac
case "$usequadmath" in
"$define") libswanted="$libswanted quadmath" ;;
esac
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted; do
 for thisdir in $libspath; do
    xxx="
    if $test ! -f "$xxx" -a "X$ignore_versioned_solibs" = "X"; then
  xxx=`ls $thisdir/lib$thislib.$so.[0-9] 2>/dev/null|sed -n '$p'`
        $test -f "$xxx" && eval $libscheck
  $test -f "$xxx" && libstyle=shared
  xxx=`ls $thisdir/lib$thislib.[0-9].$so 2>/dev/null|sed -n '$p'`
```

```
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib.$so
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx"
&& eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
 $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
 xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
 $test -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
 case "$libstyle" in
 shared) echo "Found -l$thislib (shared)." ;;
 static) echo "Found -l$thislib." ;;
 *)      echo "Found -l$thislib ($libstyle)." ;;
 esac
 case " $dflt " in
 *"-l$thislib "*);;
 *) dflt="$dflt -l$thislib"
                libsfound="$libsfound $xxx"
                yyy=`basename $xxx`
                libsfiles="$libsfiles $yyy"
                yyy=`echo $xxx|$sed -e
"s%/$yyy\\$%%"`
                case " $libsdirs " in
                *" $yyy "*) ;;
                *) libsdirs="$libsdirs $yyy" ;;
                esac
```

```
    ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM

echo " "
rp="What libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libs.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: dlsrc.U,v$
?RCS:
?RCS: Copyright (c) 1996-1998, Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: dlext.U,v $
?RCS:
```

```
?X:  hpux support thanks to Jeff Okamoto <okamoto@hpcc101.corp.hp.com>
?X:
?X:  To create a shared library, you must compile ALL source files in the
?X:  library with +z (or possibly +Z if the library is whopping huge),
?X:  then link the library with -b.  Example:
?X:   cc -c +z module_a.c
?X:   cc -c +z module_b.c
?X:   ld -b module_a.o module_b.o -o module.sl
?X:
?MAKE:dlext: \
 Getfile Myread cat usedl so
?MAKE: -pick add $@ %<
?Y:BOTTOM
?S:dlext:
?S: This variable contains the extension that is to be used for the
?S: dynamically loaded modules that perl generates.
?S:.
: Check what extension to use for shared libs
case "$usedl" in
$define|y|true)
 $cat <<
 EOM

On a few systems, the dynamically loaded modules that perl generates and uses
will need a different extension than shared libs. The default will probably
be appropriate.

EOM
 case "$dlext" in
 ") dflt="$so" ;;
 *) dflt="$dlext" ;;
 esac
 rp='What is the extension of dynamically loaded modules'
 . ./myread
 dlext="$ans"
 ;;
*)
 dlext="none"
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dlext.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: AAAAA.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: AAAAA.U,v $
?RCS: Revision 3.0.1.4  1994/06/20  06:50:26  ram
?RCS: patch30: changes from Jarkko Hietaniemi are tagged with JHI
?RCS:
?RCS: Revision 3.0.1.3  1994/05/06  14:01:39  ram
?RCS: patch23: initials for Wayne Davison are now WED
?RCS: patch23: added initials for new unit contributor Andy Dougherty
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:01:09  ram
?RCS: patch16: make metalint shut up on special unit definition for All target
?RCS:
?RCS: Revision
 3.0.1.1  1993/09/13  15:43:57  ram
?RCS: patch10: documents initials used for Wayne Davison's contributions
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:44  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply the head of the Makefile created
?X: by metaconfig.  For this reason it must be first in alphabetical order.
?X: The leading '+' in front of the unit name is a hint for metalint, since
?X: the use of that special unit name as a "made" unit is legitimate here.
?X:
?MAKE:+All: Finish
?X:
?X: Throughout the units, the following initials are used to identify comments:
?X:
?X:  HMS: Harlan Stenn
?X:  RAM: Raphael Manfredi
?X:  WED: Wayne Davison (was WAD by mistake--RAM)
?X:  ADO: Andy Dougherty
?X:  JHI: Jarkko Hietaniemi
?X:
?X: Agreed, this is a weird place to document it, but I couldn't find a better
?X: place to do so. I've bet on the curiosity of users, who would probably
?X: want to know what's in this strangely-named file--RAM.
```

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/AAAAA.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Unix.U,v 3.0.1.1 1997/02/28 15:20:06 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _exe _a _o exe_ext lib_ext obj_ext path_sep \
 firstmakefile archobjs rm_try: Oldconfig rm
?MAKE: -pick add $@ %<
?S:_exe:
?S: This
 variable defines the extension used for executable files.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?S:_a:
?S: This variable defines the extension used for ordinary library files.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o:
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
```

```
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.
  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?X: Metaconfig's Obsolete symbol stuff is too over-eager.  In the
?X: perl sources, it picks up things like "P" and "FLOCK" that are
?X: not used in the way Metaconfig thinks they are.  Thus I can't
?X: just declare these obsolete and then run metaconfig -o.
?X: Instead, I'll just handle them here.
?X: Sadly, history has conspired to give us a web of definitions;
?X: this could have been much simpler.
?S:lib_ext:
?S: This is an old synonym for _a.
?S:.
?S:exe_ext:
?S: This is an old synonym for _exe.
?S:.
?S:obj_ext:
?S: This is an old synonym for _o.
?S:.
?S:path_sep:
?S: This is an old synonym for p_ in Head.U, the character
?S: used to separate elements in the command shell search PATH.
?S:.
?S:rm_try:
?S: This is a cleanup variable for try test programs.
?S: Internal Configure use only.
?S:.
?LINT: change p_
?INIT::
 Trailing extension.  Override this in a hint file, if needed.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files or command line option can be used to override them.
: The convoluted testing is in case hints files set either the old
: or the new name.
case "$_exe" in
") case "$exe_ext" in
 ") ;;
 *) _exe="$exe_ext" ;;
 esac
 ;;
esac
```

```
case "$_a" in
") case "$lib_ext" in
   ") _a='.a';;
 *) _a="$lib_ext" ;;
 esac
 ;;
esac
case "$_o" in
") case "$obj_ext" in
 ") _o='.o';;
 *) _o="$obj_ext";;
 esac
 ;;
esac
case "$p_" in
") case "$path_sep" in
 ") p_=':';;
 *) p_="$path_sep";;
 esac
 ;;
esac
exe_ext=$_exe
lib_ext=$_a
obj_ext=$_o
path_sep=$p_

rm_try="$rm -f try try$_exe a.out .out try.[cho] try.$_o core core.try* try.core*"

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End: $W
?MAKE: -pick add $@ %<
?LINT:use $W
: end of configuration
 questions
echo " "
echo "End of configuration questions."
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/End.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: perl5.U,v $
?RCS:
?RCS: Copyright (c) 2000 Andrew Dougherty
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: perl5.U,v $
?RCS:
?X:
?X: The purpose of this unit is to locate a previously installed
?X: version of perl5 suitable for running inc_version_list.U.
?X: We check for 5.005 and later because inc_version_list is
?X: irrelevant for earlier versions.
?X:
?MAKE:perl5: path_sep binexp test sed exe_ext
?MAKE: -pick add $@ %<
?Y:TOP
?S:perl5:
?S: This variable contains the full path (if any) to a previously
?S: installed perl5.005 or later suitable for running the script
?S: to determine inc_version_list.
?S:.
?T: tdir
```

```
: Find perl5.005 or later.
echo "Looking for a previously installed perl5.005 or later... "
case "$perl5" in
") for tdir in `echo "$binexp$path_sep$PATH" | $sed "s/$path_sep/
 /g"`; do
  : Check if this perl is recent and can load a simple module
  if $test -x $tdir/perl$exe_ext && $tdir/perl -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl
   break;
  elif $test -x $tdir/perl5$exe_ext && $tdir/perl5 -Mless -e 'use 5.005;' >/dev/null 2>&1; then
   perl5=$tdir/perl5
   break;
  fi
 done
 ;;
*) perl5="$perl5"
 ;;
esac
case "$perl5" in
") echo "None found.  That's ok.";;
*) echo "Using $perl5." ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/perl5.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs
```

```
?MAKE: -pick add $@ %<
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally
 by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile,
 except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs;'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorman3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999-2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorman3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorman3dir vendorman3direxp installvendorman3dir: man3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorman3dir:
?S: This variable contains the name of the directory for man3
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this directory.
?S: Vendors
 who distribute perl may wish to place their own
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorman3direxp:
?S: This variable is the ~name expanded version of vendorman3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorman3dir="
?S:installvendorman3dir:
?S: This variable is really the same as vendorman3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorman3dir
: Set the vendorman3dir variables
case "$vendorprefix" in
") vendorman3dir="
 vendorman3direxp="
 ;;
*) : determine where vendor-supplied module manual pages go.
 case "$vendorman3dir" in
 ") dflt=`echo "$man3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
```

```
 *) dflt=$vendorman3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=nd~+
 rp='Pathname
 for the vendor-supplied manual section 3 pages?'
 . ./getfile
 vendorman3dir="$ans"
 vendorman3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorman3dir" = "X" && vendorman3dir=' '
prefixvar=vendorman3dir
. ./installprefix
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorman3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Compile.U,v $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?RCS:
?X:
?X: This unit is just a quick shorthand for the compile command
?X: to be used in all the other metaconfig units.
?X:
?MAKE:Compile: +cc +optimize +ccflags +ldflags +libs test
?MAKE: -pick wipe $@ %<
?LINT:extern usedevel maintloc
?LINT:define compile compile_ok
?V:compile compile_ok mc_file
?S:compile:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command, namely
?S: $cc $optimize $ccflags $ldflags -o $1 $1.c $libs > /dev/null 2>&1
?S: Note that the output filename does _not_ include the _exe
?S: extension.  Instead we assume that the linker will be
?S: "helpful" and automatically appending the correct suffix.
?S: OS/2
```

```
 users will apparently need to supply the -Zexe flag to
?S: get this behavior.
?S:
?S: To use this variable, say something like:
?S:  echo 'int main() { exit(0); }' > try.c
?S:  set try
?S:  if eval $compile; then
?S:   echo "success"   # and do whatever . . .
?S:  else
?S:   echo "failure"   # and do whatever . . .
?S:  fi
?S: To add extra flags cc flags (e.g. -DWHATEVER) just put them
?S: in $*, e.g.
?S:  set try -DTRY_THIS_FLAG
?S:.
?S:compile_ok:
?S: This shell variable is used internally by Configure to provide
?S: a convenient shorthand for the typical compile command that you
?S: expect to work ok.  It is the same as $compile, except we
?S: deliberately let the user see any error messages.
?S:.
: define a shorthand compile call
compile='
mc_file=$1;
shift;
case "$usedevel" in $define|true|[yY]*) if $test ! -f "${mc_file}.c"; then
echo "Internal Configure script bug - compiler test file ${mc_file}.c is missing. Please report this to <$maintloc>"
>&4;
exit 1;
fi;
esac;
$cc
 -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
: define a shorthand compile call for compilations that should be ok.
compile_ok='
mc_file=$1;
shift;
$cc -o ${mc_file} $optimize $ccflags $ldflags $* ${mc_file}.c $libs > /dev/null 2>&1;'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/Compile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Warn_v7EXT.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Warn_v7EXT.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  16:01:42  ram
?RCS: patch36: call ./v7 explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:17  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit issues warnings to V7 sites that they are living dangerously.
?X: This unit needs to get mentioned in End.U to get included.
?X:
?MAKE:Warn_v7EXT: package Guess
?MAKE: -pick add $@ %<
: Warnings
if ./v7;
 then
 cat <<EOM

NOTE: the V7 compiler may ignore some #undefs that $package uses.  If so,
you may get messages about redefining EXT.  Some V7 compilers also have
difficulties with #defines near buffer boundaries, so beware.  You may have
to play with the spacing in some .h files, believe it or not.
EOM
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn_v7EXT.U
No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lseektype.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/maildir.U?RCS: $Id: maildir.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mailer.U?RCS: $Id: mailer.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mailfile.U?RCS: $Id: mailfile.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/make.U?RCS: $Id: make.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mallocsrc.U?RCS:
 Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-

5.34.0/dist/U/man1dir.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/man3dir.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/manfmt.U?RCS: $Id: manfmt.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mansrc.U?RCS: $Id: mansrc.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mboxchar.U?RCS: $Id: mboxchar.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/mkdep.U?RCS:
$Id: mkdep.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/models.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/modetype.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/myhostname.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/n.U?RCS: $Id: n.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nametype.U?RCS: $Id: nametype.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nblock_io.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/newslib.U?RCS:
$Id: newslib.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/newsspool.U?RCS: $Id: newsspool.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nis.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/nlist_pfx.U?RCS: $Id: nlist_pfx.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/orderlib.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/orgname.U?RCS: $Id: orgname.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/packadmin.U?RCS:
$Id: packadmin.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/package.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pager.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/patchlevel.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/perlpath.U?RCS: Id

/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pidtype.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/pkgsrc.U?RCS: $Id: pkgsrc.U 1
2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prefix.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prefshell.U?RCS: $Id: prefshell.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/privlib.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/prototype.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ptrsize.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/randbits.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/randfunc.U?RCS:
Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/rcs_branch.U?RCS: $Id: rcs_branch.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/registers.U?RCS: $Id: registers.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/rootid.U?RCS: $Id: rootid.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sbrksmart.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sbrktype.U?RCS: $Id: sbrktype.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/scriptdir.U?RCS:
Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/selecttype.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sh.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/shm_for.U?RCS: $Id: shm_for.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sig_name.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sitearch.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sitelib.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sizetype.U?RCS:

Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/so.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sockopt.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/spitshell.U?RCS: $Id: spitshell.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/src.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ssizetype.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/startperl.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/startsh.U?RCS:
$Id: startsh.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/stdchar.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sunscanf.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/sysman.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/trnl.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/uidtype.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usenm.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usesocks.U?RCS:
Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/usrinc.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/vaproto.U?RCS: $Id: vaproto.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/voidflags.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/warnflags.U?RCS: $Id: warnflags.U 1 2006-08-24 12:32:52Z rmanfredi $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/yacc.U?RCS: Id
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/bindex#!/usr/bin/perl
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.rules;##
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/Jmake.tmpl/*

/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/files/fixcpp#!/usr/bin/perl
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/dup2.C/*
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/getopt.C/*
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/rename.C/*
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/scandir.C/*
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/C/fake/setsid.C/*
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.SH#
 $Id: errnolist.sh,v 3.0.1.1 1994/01/24 14:00:00 ram Exp ram $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.a# $Id: errnolist.a,v 3.0 1993/08/18 12:04:35 ram Exp ram $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/errnolist.mk# $Id: errnolist.mk,v 3.0.1.1 1994/01/24 13:59:32 ram Exp ram $
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/makedepend.SHcase $CONFIG in
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/lib/makedir.SHcase
 $CONFIG in
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/makegloss#!/usr/bin/perl
/opt/cola/permits/2650668978_1759154991.2859914/0/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/metaconfig.html<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Copyright (c) 2000, Jarkko Hietaniemi
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in order

```
?X: to make quick check on whether the current C compiler is working.
?X:
?MAKE:Checkcc ccname ccversion: Myread Warn startsh cat contains test
?MAKE: -pick add $@ %<
?S:ccname:
?S: This can set either by hints files or by Configure.  If using
?S: gcc, this is gcc, and if not, usually equal to cc, unimpressive, no?
?S: Some platforms, however, make good use of this by storing the
?S: flavor
 of the C compiler being used here.  For example if using
?S: the Sun WorkShop suite, ccname will be 'workshop'.
?S:.
?S:ccversion:
?S: This can set either by hints files or by Configure.  If using
?S: a (non-gcc) vendor cc, this variable may contain a version for
?S: the compiler.
?S:.
?F:./checkcc ./trygcc !checktmp
?V:despair
?T:trygcc
?LINT:extern cc rm ccflags ldflags
?LINT:change cc ccflags
?LINT:usefile checktmp
?INIT:ccname=''
?INIT:ccversion=''
: generate the trygcc script for later perusal
cat <<EOS >trygcc
$startsh
EOS
cat <<'EOSC' >>trygcc
case "$cc" in
'') ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
      echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      despair=yes
      trygcc=yes
      case "$cc" in
      *gcc*) trygcc=no ;;
```

```
      esac
      case "`$cc -v -c try.c 2>&1`" in

     *gcc*) trygcc=no ;;
      esac
      if $test X"$trygcc" = Xyes; then
         if gcc -o try -c try.c; then
            echo " "
            echo "You seem to have a working gcc, though." >&4
            rp="Would you like to use it?"
            dflt=y
            if $test -f myread; then
               . ./myread
            else
               if $test -f UU/myread; then
                  . ./UU/myread
               else
                  echo "Cannot find myread, sorry.  Aborting." >&2
                  exit 1
               fi
            fi
            case "$ans" in
            [yY]*) cc=gcc; ccname=gcc; ccflags=''; despair=no;
?X: Look whether we have 'call-back units' generated by hints that would
?X: seemingly affect the compiling environment.
                  $cat *.cbu >checktmp 2>/dev/null
                  if $contains ccflags checktmp >/dev/null; then

      ./warn <<EOM
Any previous setting of the C compiler flags has been lost.
It may be necessary to pass -Dcc=gcc to Configure right away.
EOM
                  fi;;
            esac
         fi
      fi
   fi
   $rm -f try try.*
   ;;
esac
EOSC

: generate the checkcc script for later perusal
cat <<EOS >checkcc
$startsh
EOS
cat <<'EOSC' >>checkcc
case "$cc" in
```

```
") ;;
*)  $rm -f try try.*
   $cat >try.c <<EOM
int main(int argc, char *argv[]) {
 (void) argc;
 (void) argv;
 return 0;
}
EOM
   if $cc -o try $ccflags $ldflags try.c; then
      :
   else
      if $test X"$despair" = Xyes; then
         echo "Uh-oh, the C compiler '$cc' doesn't seem to be working." >&4
      fi
      $cat >&4 <<EOM
You need to find a working C compiler.
Either (purchase and) install the C compiler supplied by your OS vendor,
or for a free C compiler try http://gcc.gnu.org/
I cannot continue any further, aborting.
EOM
      exit 1
   fi

 $rm -f try try.*
   ;;
esac
EOSC
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Checkcc.U
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```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:siteman3dir siteman3direxp installsiteman3dir: Getfile \
 Setprefixvar prefix siteprefix man3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman3dir="
```

```
?S:siteman3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library man source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: man3 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman3direxp="
?S:siteman3direxp:
?S: This variable is the same as the siteman3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman3dir="
?S:installsiteman3dir:
?S: This variable is really the same as siteman3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman3dir
?LINT:set siteman3dir
?LINT:set siteman3direxp
: determine where add-on library man pages go
case "$siteman3dir" in
") dflt=`echo $man3dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman3dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific library manual pages should be installed?'
. ./getfile
prefixvar=siteman3dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteman3dir.U
No license file was found, but licenses were detected in source scan.

```
/* This file was produced by running the config_h.SH script, which
```

```
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*/
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Unix.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:20:06  ram
?RCS: patch61: created
?RCS:
?X:
?X: The purpose of this unit is to define things that are common across all
?X: known UNIX platforms. If Configure is ported/used on a non-UNIX
?X: environment, then some of the following variables can be redefined in hint
?X: files.
?X:
?MAKE:Unix _a _o firstmakefile archobjs: Oldconfig
?MAKE: -pick add $@ %<
?S:_a (lib_ext):
?S: This variable defines the extension
 used for ordinary libraries.
?S: For unix, it is '.a'.  The '.' is included.  Other possible
?S: values include '.lib'.
?S:.
?S:_o (obj_ext):
?S: This variable defines the extension used for object files.
?S: For unix, it is '.o'.  The '.' is included.  Other possible
?S: values include '.obj'.
?S:.
?S:firstmakefile:
?S: This variable defines the first file searched by make.  On unix,
```

```
?S: it is makefile (then Makefile).  On case-insensitive systems,
?S: it might be something else.  This is only used to deal with
?S: convoluted make depend tricks.
?S:.
?S:archobjs:
?S: This variable defines any additional objects that must be linked
?S: in with the program on this architecture.  On unix, it is usually
?S: empty.  It is typically used to include emulations of unix calls
?S: or other facilities.  For perl on OS/2, for example, this would
?S: include os2/os2.obj.
?S:.
?INIT:: Extra object files, if any, needed on this platform.
?INIT:archobjs="
: Define several unixisms.
: Hints files
 or command line option can be used to override them.
case "$_a" in
") _a='.a';;
esac
case "$_o" in
") _o='.o';;
esac

@if firstmakefile
: Which makefile gets called first.  This is used by make depend.
case "$firstmakefile" in
") firstmakefile='makefile';;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Unix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_passwd.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: d_passwd.U,v $
```

```
?RCS: Revision 3.0.1.2  1997/02/28  15:37:21  ram
?RCS: patch61: useless unit dropped.
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:09:51  ram
?RCS: patch32: created by ADO
?RCS:
?X:
?X: Useless unit dropped.
?X:
?LINT:empty
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_passwd.U
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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and CONFIG,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint file or a previous config.sh file.
?X:
?MAKE:Oldsym:
 Config_sh Options test hint src sed sort uniq
?MAKE: -pick add $@ %<
?T:CONFIG sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "CONFIG=true" >>config.sh
```

```
: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh |\
  $sort | $uniq -u >UU/oldsyms
 set X `cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  cat <<EOM
Hmm...You had some extra variables I don't know about...I'll
 try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
```

```
?RCS:
?RCS: $Log: cf_who.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:28:50  ram
?RCS: patch61: new computation method avoiding use of temporary file
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:42:34  ram
?RCS: patch23: login name now computed the hard way
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:32  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Oldconfig dependency is there to ensure computation occurs after old values
?X: from config.sh have been loaded, so that we can supersede them.
?X:
?MAKE:cf_time
 cf_by: date Oldconfig
?MAKE: -pick add $@ %<
?S:cf_time:
?S: Holds the output of the "date" command when the configuration file was
?S: produced. This is used to tag both config.sh and config_h.SH.
?S:.
?S:cf_by:
?S: Login name of the person who ran the Configure script and answered the
?S: questions. This is used to tag both config.sh and config_h.SH.
?S:.
?LINT:change LC_ALL LANGUAGE
: who configured the system
?X: Ensure English date -- Jarkko Hietaniemi
cf_time=`LC_ALL=C; LANGUAGE=C; export LC_ALL; export LANGUAGE; $date 2>&1`
?X:
?X: Leave a white space between first two '(' for ksh. The sub-shell is needed
?X: on some machines to avoid the error message when logname is not found; e.g.
?X: on SUN-OS 3.2, (logname || whoami) would not execute whoami if logname was
?X: not found. Sigh!
?X:
?X: Convex had a broken logname executable which returned a non-zero status,
?X: and that broke the previous:
?X:   cf_by=`( (logname) 2>/dev/null || whoami) 2>&1`
?X: Switch to emergency
 mode... -- RAM, 19/04/94
?X:
?X: Parentheses needed to avoid error message if the program does not exist.
?X: Uses case instead of $test so it can be put before $test is defined.
?X: Don't redirect to a file because on Ultrix (under script?) logname
?X: outputs a blank line first.  This method will apparently work.
case "$cf_by" in
"")
```

```
 cf_by=`(logname) 2>/dev/null`
 case "$cf_by" in
 "")
  cf_by=`(whoami) 2>/dev/null`
  case "$cf_by" in
  "") cf_by=unknown ;;
  esac ;;
 esac ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_who.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: baserev.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: baserev.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:baserev: Null
?MAKE: -pick wipe $@ %<
?S:baserev:
?S: The base revision level of this package, from the .package file.
?S:.
: set the base revision
baserev=<BASEREV>
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/baserev.U
No license file was found, but licenses were detected in source scan.

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: You may distribute under the terms of either the GNU General Public
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigsetjmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sigsetjmp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: d_byacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1996, Andy Dougherty
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: d_byacc.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:31:14  ram
?RCS: patch61: created
?RCS:
?MAKE:d_byacc: byacc Setvar
?MAKE: -pick add $@ %<
?S:d_byacc:
?S: This variable indicates whether byacc is available.
?S: If the user has specified 'portability', then Makefile.SH
?S: sees $byacc='byacc' whether or not the user actually has
?S: byacc.  This variable allows us to determine in a makefile
?S: if we really
 have byacc.
?S:.
?LINT:set d_byacc
: Check if we really have byacc
case "$byacc" in
"|'byacc') val="$undef" ;;
*) val="$define" ;;
esac
set d_byacc
eval $setvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_byacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Myread.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: Myread.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  15:05:39  ram
?RCS: patch61: myread script now starts with a "startsh"
?RCS: patch61: miscellaneous fixes
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:14:22  ram
?RCS: patch45: added & escape allowing user to turn on -d from the prompt
?RCS:
?RCS: Revision 3.0.1.4  1994/10/31  09:48:04  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.3  1994/10/29
  15:56:20  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.2  1993/08/30  08:57:59  ram
?RCS: patch8: added new visible 'nostick' symbol, mainly for Finish.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:39:20  ram
?RCS: patch7: now sticks to the question when no default and empty answer
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:08  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to do a read.  It allows for shell escapes, default assignment and
?X: parameter evaluation.
?X:
?X: To use this unit, $rp and $dflt must hold the question and the
?X: default answer. The question will be printed by the script itself.
?X: Neither $rp nor $dflt is altered by the script.
?X:
?X: The myread script will stick to the question if no default is proposed
?X: and the user answer is empty, which prevents mistakes. However, at the
?X: end of Configure, there is an exception
 to this rule (Finish.U) where we
?X: set nostick to a non-empty value to allow the Return key to play its role!
?X:
?MAKE:Myread: Options startsh n c trnl
?MAKE: -pick add $@ %<
?V:ans:dflt rp nostick
?F:./myread
?T:COLUMNS xxxm rp dflt answ aok myecho
?LINT:change fastread
?X: Some shells (Ultrix) do not understand ${COLUMNS:-80}, sigh!
: compute the number of columns on the terminal for proper question formatting
case "$COLUMNS" in
```

```
") COLUMNS='80';;
esac

: set up the echo used in my read
?X:
?X: This variable is intended to be eval'ed. It will echo the two
?X: variables $rp and $dflt (provided this latter has a non null value).
?X: It is mainly used by the myread script to echo the questions.
?X:
?X: The $n and $c below are substituted before Loc does its silly echo check
?X: so don't put a $ on the echo below so we get builtin, even if $echo is
?X: pointing to /bin/echo.
?X:
myecho="case \"\$xxxm\" in
") echo $n \"\$rp $c\" >&4;;
*) case \"\$rp\" in
 ") echo $n \"[\$xxxm] $c\";;
 *)
  if
 test \`echo \"\$rp [\$xxxm]  \" | wc -c\` -ge $COLUMNS; then
   echo \"\$rp\" >&4
   echo $n \"[\$xxxm] $c\" >&4
  else
   echo $n \"\$rp [\$xxxm] $c\" >&4
  fi
  ;;
 esac;;
esac"

: now set up to do reads with possible shell escape and default assignment
cat <<EOSC >myread
$startsh
?X:
?X: Save value of default -- do not alter original in case of eval
?X:
xxxm=\$dflt
$myecho
?X:
?X: If there is no default, then stop, regardless of the value in fastread.
?X: In silent mode, no new-line is to be echoed if the question is empty,
?X: since this is used to wait for the "return" key.
?X:
ans='!'
case "\$fastread" in
yes) case "\$dflt" in
 ") ;;
 *) ans=";
  case "\$silent-\$rp" in
```

```
  true-) ;;
  *) echo " " >&4;;
  esac;;
 esac;;
*) case "\$silent" in
 true) case "\$rp" in
  ") ans=";;
  esac;;
 esac;;
esac
while expr "X\$ans" : "X!" >/dev/null; do
 read answ
?X:
?X: Run 'eval' on the answer, in order to do variable substitution, in case
?X: the user types $HOME or $WHATEVER.
 Variables must be evaluated now.
?X: Typing '\$HOME' won't currently prevent from substitution -- use '\\$HOME'
?X: The $1 .. $9 and $*, as well as $@, are available to refer to the
?X: default value.
?X:
 set x \$xxxm
 shift
 aok=''; eval "ans=\\"\$answ\\"" && aok=y
 case  "\$answ" in
?X:
?X: Use "!" and not a plain ! because of a bug in BSD 4.4 shell
?X: (reported by Wayne Davison)
?X: We must handle the shell escapes before dealing with possible variable
?X: substitution, since the shell we're launching in that case will be able
?X: to do it as well as we can -- RAM, 15/03/96
?X
 "!")
  sh 1>&4
  echo " "
  $myecho
  ;;
 !*)
  set x \`expr "X\$ans" : "X!\(.*\)\$"\`
  shift
  sh 1>&4 -c "\$*"
  echo " "
  $myecho
  ;;
 "\$ans")
  case "\$ans" in
?X:
?X: Answers starting with & are hooks allowing to dynamically turn on/off
?X: some Configure options. That's for the future. -- RAM, 09/01/95
```

```
?X: Today, we only recognize '& -d' to mean 'go on as if Configure -d, which
?X: is a hardwired
 behaviour compatible with our general scheme.
?X:
  \\&*)
   set x \`expr "X\$ans" : "X&\(.*\)\$"\`
   shift
   case "\$1" in
   -d)
    fastread=yes
    echo "(OK, I'll run with -d after this question.)" >&4
    ;;
   -*)
    echo "*** Sorry, \$1 not supported yet." >&4
    ;;
   esac
   $myecho
   ans=!
   ;;
  esac;;
 *)
  case "\$aok" in
  y)
   echo "*** Substitution done -- please confirm."
   xxxm="\$ans"
   ans=\`echo $n "\$ans$c" | tr '$trnl' ' '\`
   xxxm="\$ans"
   ans=!
   ;;
  *)
   echo "*** Error -- try again."
   ans=!
   ;;
  esac
  $myecho
  ;;
 esac
?X: Stick in myread if no default answer and nothing was answered
 case "\$ans\$xxxm\$nostick" in
 ")
  ans=!
  $myecho
  ;;
 esac
done
case "\$ans" in
") ans="\$xxxm";;
esac
```

EOSC

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Myread.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun like everybody
?RCS: patch54: can now grok
 linux nm output with lead __IO (ADO)
?RCS: patch54: added support for linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
```

```
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1
  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc libnames +nm_extract: echo n c rm test grep Getfile Myread \
 Oldconfig Loc sed libs incpath libpth ar runnm nm nm_opt nm_so_opt \
 contains xlibpth so osname trnl tr sort uniq _o _a
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:libnames:
?S: The constructed list of library names.  Normally empty, but hint files
?S: may set this for later perusal by Configure.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:change nm_opt runnm
?INIT:libnames=''
: Figure out where the libc is located
case
 "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
: get list of predefined functions in a handy place
echo " "
case "$libc" in
'') libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
'') ;;
*)  for thislib in $libs; do
 case "$thislib" in
```

```
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try=''
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib"
 ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
```

```
?X: part is removed after sorting. Nice efficient work
 from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set /usr/ccs/lib/libc.$so
 $test -r $1 || set /lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
?X:
 echo
 "Your C library seems to be in both /lib/clib and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
```

```
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick
 $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.

EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...
```

```
EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case
 $# in 1) xxx=file; esac
echo "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval
 "<libc.tmp $com >libc.list"; echo "done." >&4'
?X: BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
```

```
?X: HPUX10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
xxx='[ADTSIW]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *_[_.]*//p' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval
 $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
```

```
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null
 2>&1; then
  eval $xrun
?X: OS/2 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
    $ar t $thisname >>libc.tmp
   done
   $sed
 -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
```

```
      < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if
    bld t $libc | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo
 "Ok." >&4
   else
    echo "That didn't work either." >&4
    echo "No problem, I'll be compiling test programs then..." >&4
    runnm=false
   fi
  fi
 fi
fi
nm_extract="$com"
if $test -f /lib/syscalls.exp; then
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
fi
?X: remember, indentation is wrong on purpose--RAM
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml3dir sitehtml3direxp installsitehtml3dir: Getfile \
 Setprefixvar prefix siteprefix html3dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml3dir=''
?S:sitehtml3dir:
?S: This variable contains the name of the directory in which site-specific
?S: library html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After
 perl has been installed, users may install their own local
?S: library html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml3direxp=''
?S:sitehtml3direxp:
?S: This variable is the same as the sitehtml3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml3dir=''
?S:installsitehtml3dir:
?S: This variable is really the same as sitehtml3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html3direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml3dir
?LINT:set sitehtml3dir
?LINT:set sitehtml3direxp
: determine where add-on library html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case
 "$sitehtml3dir" in
")    dflt=`echo "$html3dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml3dir ;;
esac
case "$dflt" in
```

```
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific library html pages should be installed?'
. ./getfile
prefixvar=sitehtml3dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitehtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Options.U,v $
?RCS: Revision 3.0.1.7  1997/02/28  15:08:15  ram
?RCS: patch61: optdef.sh now starts with a "startsh"
?RCS: patch61: moved some code from Head.U
?RCS:
?RCS: Revision 3.0.1.6  1995/09/25  09:14:46  ram
?RCS: patch59: protected option parsing code against 'echo -*' option failure
?RCS:
?RCS: Revision 3.0.1.5  1995/05/12  12:04:52  ram
?RCS: patch54: added -K option for experts
?RCS:
?RCS: Revision 3.0.1.4  1995/01/30  14:27:52  ram
?RCS: patch49: this unit now exports file optdef.sh,
 not a variable
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:19:00  ram
?RCS: patch45: new -O option allowing -D and -U to override config.sh settings
?RCS: patch45: file optdef.sh is no longer removed after sourcing
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  15:58:06  ram
?RCS: patch36: ensure option definition file is removed before appending
?RCS: patch36: protect variable definitions with spaces in them
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  06:55:44  ram
?RCS: patch30: now uses new me symbol to tag error messages
?RCS: patch30: new -D and -U options to define/undef symbols (JHI)
```

```
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:14  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: Command line parsing. It is really important that the variables used here
?X: be not listed in the MAKE line, or they will be saved in config.sh and
?X: loading this file to fetch default answers would clobber the values set
?X: herein.
?X:
?MAKE:Options: startsh
?MAKE: -pick wipe $@ %<
?V:reuseval
 alldone error realsilent silent extractsh fastread \
 override knowitall: config_sh
?T:arg argn symbol config_arg0 config_args config_argc xxx yyy zzz uuu
?T:args_exp args_sep arg_exp
?F:!Configure
?F:./optdef.sh ./cmdline.opt ./posthint.sh ./cmdl.opt
: Save command line options in file UU/cmdline.opt for later use in
: generating config.sh.
?X: This temporary file will be read by Oldsym.U.  I used a temporary
?X: file to preserve all sorts of potential command line quotes and
?X: also because we don't know in advance how many variables we'll
?X: need, so I can't actually declare them on the MAKE line.
?X: The config_args variable won't be quite correct if Configure is
?X: fed something like    ./Configure -Dcc="gcc -B/usr/ccs/bin/"
?X: since the quotes are gone by the time we see them.  You'd have to
?X: reconstruct the command line from the config_arg? lines, but since
?X: I don't imagine anyone actually having to do that, I'm not going
?X: to worry too much.
cat > cmdline.opt
 <<EOSH
: Configure command line arguments.
config_arg0='$0'
config_args='$*'
config_argc=$#
EOSH
argn=1
args_exp=''
args_sep=''
for arg in "$@"; do
 cat >>cmdline.opt <<EOSH
config_arg$argn='$arg'
EOSH
?X: Extreme backslashitis: replace each ' by '''''
 cat <<EOC | sed -e "s/'/'''''''''''''''/g" > cmdl.opt
$arg
```

```
EOC
 arg_exp=`cat cmdl.opt`
 args_exp="$args_exp$args_sep'$arg_exp'"
 argn=`expr $argn + 1`
 args_sep=' '
done
?X: args_exp is good for restarting self: eval "set X $args_exp"; shift; $0 "$@"
?X: used by hints/os2.sh in Perl, for instance
rm -f cmdl.opt

: produce awk script to parse command line options
cat >options.awk <<'EOF'
BEGIN {
 optstr = "A:dD:eEf:hKOrsSU:V"; # getopt-style specification

 len = length(optstr);
 for (i = 1; i <= len; i++) {
  c = substr(optstr, i, 1);
?X: some older awk's do not have the C ?: construct
  if (i < len) a = substr(optstr, i + 1, 1); else a = "";
  if (a == ":") {
   arg[c] = 1;
   i++;
  }
  opt[c] = 1;
 }
}
{
 expect = 0;
 str = $0;
 if (substr(str,
 1, 1) != "-") {
  printf("'%s'\n", str);
  next;
 }
 len = length($0);
 for (i = 2; i <= len; i++) {
  c = substr(str, i, 1);
  if (!opt[c]) {
   printf("-%s\n", substr(str, i));
   next;
  }
  printf("-%s\n", c);
  if (arg[c]) {
   if (i < len)
    printf("'%s'\n", substr(str, i + 1));
   else
    expect = 1;
```

```
   next;
  }
 }
}
END {
 if (expect)
  print "?";
}
EOF

: process the command line options
?X: Use "$@" to keep arguments with spaces in them from being split apart.
?X: For the same reason, awk will output quoted arguments and the final eval
?X: removes them and sets a proper $* array. An 'X' is prependend to each
?X: argument before being fed to echo to guard against 'echo -x', where -x
?X: would be understood as an echo option! It is removed before feeding awk.
set X `for arg in "$@"; do echo "X$arg"; done |
 sed -e s/X// | awk -f options.awk`
eval "set $*"
shift
rm -f options.awk

: set up default values
fastread=''
reuseval=false
config_sh=''
alldone=''
error=''
silent=''
extractsh=''
overrideo=''
knowitall=''
rm
 -f optdef.sh posthint.sh
cat >optdef.sh <<EOS
$startsh
EOS

?X:
?X: Given that we now have the possibility to execute Configure remotely
?X: thanks to the new src.U support, we have to face the possibility
?X: of having to ask where the source lie, which means we need the Myread.U
?X: stuff and possibly other things that might echo something on the
?X: screen...
?X:
?X: That's not pretty, and might be confusing in 99% of the time. So...
?X: We introduce a new realsilent variable which is set when -s is given,
?X: and we force silent=true if -S is supplied. The Extractall.U unit
```

```
?X: will then undo the >&4 redirection based on the value of the
?X: realsilent variable... -- RAM, 18/93/96
?X:

: option parsing
while test $# -gt 0; do
 case "$1" in
 -d) shift; fastread=yes;;
 -e) shift; alldone=cont;;
 -f)
  shift
  cd ..
  if test -r "$1"; then
   config_sh="$1"
  else
   echo "$me: cannot read config file $1." >&2
   error=true
  fi
  cd UU
  shift;;
 -h)
 shift; error=true;;
 -r) shift; reuseval=true;;
 -s) shift; silent=true; realsilent=true;;
 -E) shift; alldone=exit;;
 -K) shift; knowitall=true;;
 -O) shift; override=true;;
 -S) shift; silent=true; extractsh=true;;
 -D)
  shift
  case "$1" in
  *=)
   echo "$me: use '-U symbol=', not '-D symbol='." >&2
   echo "$me: ignoring -D $1" >&2
   ;;
  *=*) echo "$1" | \
    sed -e "s/'/'\''\''/g" -e "s/=\(.*\)/='\1'/" >> optdef.sh;;
  *) echo "$1='define'" >> optdef.sh;;
  esac
  shift
  ;;
 -U)
  shift
  case "$1" in
  *=) echo "$1" >> optdef.sh;;
  *=*)
   echo "$me: use '-D symbol=val', not '-U symbol=val'." >&2
   echo "$me: ignoring -U $1" >&2
```

```
 ;;
 *) echo "$1='undef'" >> optdef.sh;;
 esac
 shift
 ;;
-A)
   shift
   xxx=''
   yyy="$1"
   zzz=''
   uuu=undef
   case "$yyy" in
        *=*) zzz=`echo "$yyy"|sed 's!=.*!!'`
             case "$zzz" in
             *:*) zzz='' ;;
             *)   xxx=append
                  zzz=" "`echo
"$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             esac
             ;;
        esac
        case "$xxx" in
        '')  case "$yyy" in
             *:*) xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'`
                  zzz=`echo "$yyy"|sed 's!^[^=]*=!!'`
                  yyy=`echo "$yyy"|sed 's!=.*!!'` ;;
             *)   xxx=`echo "$yyy"|sed 's!:.*!!'`
                  yyy=`echo "$yyy"|sed 's!^[^:]*:!!'` ;;
             esac
             ;;
        esac
   case "$xxx" in
   append)
 echo "$yyy=\"\${$yyy}$zzz\"" >> posthint.sh ;;
   clear)
 echo "$yyy=''   >> posthint.sh ;;
   define)
       case "$zzz" in
 '') zzz=define ;;
 esac
 echo "$yyy='$zzz'"  >> posthint.sh ;;
   eval)
 echo "eval \"$yyy=$zzz\"" >> posthint.sh ;;
   prepend)
 echo "$yyy=\"$zzz\${$yyy}\"" >> posthint.sh ;;
   undef)
```

```
        case "$zzz" in
 ")
zzz="$uuu" ;;
 esac
 echo "$yyy=$zzz"  >> posthint.sh ;;
         *)  echo "$me: unknown -A command '$xxx', ignoring -A $1" >&2 ;;
    esac
    shift
    ;;
-V) echo "$me generated by metaconfig <VERSION> PL<PATCHLEVEL>." >&2
    exit 0;;
--) break;;
-*) echo "$me: unknown option $1" >&2; shift; error=true;;
*) break;;
esac
done

case "$error" in
true)
 cat >&2 <<EOM
Usage: $me [-dehrsEKOSV] [-f config.sh] [-D symbol] [-D symbol=value]
               [-U symbol] [-U symbol=] [-A command:symbol...]
 -d : use defaults for all answers.
 -e : go on without questioning past the production of config.sh.
 -f : specify an alternate default configuration file.
 -h : print this help message and exit (with an error status).
 -r : reuse C symbols value if possible (skips costly nm extraction).
 -s : silent mode, only echoes questions and essential information.
 -D : define symbol to have some value:
       -D symbol         symbol gets the value 'define'
       -D symbol=value
  symbol gets the value 'value'
 -E : stop at the end of questions, after having produced config.sh.
 -K : do not use unless you know what you are doing.
 -O : let -D and -U override definitions from loaded configuration file.
 -S : perform variable substitutions on all .SH files (can mix with -f)
 -U : undefine symbol:
       -U symbol    symbol gets the value 'undef'
       -U symbol=   symbol gets completely empty
 -A : manipulate symbol after the platform specific hints have been applied:
  -A symbol=value  append " "value to symbol
  -A append:symbol=value  append value to symbol
  -A define:symbol=value  define symbol to have value
       -A clear:symbol  define symbol to be "
  -A define:symbol  define symbol to be 'define'
  -A eval:symbol=value  define symbol to be eval of value
  -A prepend:symbol=value prepend value to symbol
  -A undef:symbol  define symbol to be 'undef'
```

```
  -A undef:symbol=  define symbol to be "
 -V : print version number and exit (with
 a zero status).
EOM
 exit 1
 ;;
esac

?X:
?X: Unless they specified either -S or both -d and -e/E, make sure we're
?X: running interactively, i.e. attached to a terminal. Moved from Head.U to
?X: be able to handle batch configurations...
?X:
?X: We have to hardwire the Configure name and cannot use $me, since if they
?X: said 'sh <Configure', then $me is 'sh'...
?X:
: Sanity checks
case "$fastread$alldone" in
yescont|yesexit) ;;
*)
 case "$extractsh" in
 true) ;;
 *)
  if test ! -t 0; then
   echo "Say 'sh Configure', not 'sh <Configure'"
   exit 1
  fi
  ;;
 esac
 ;;
esac

?X: In silent mode, the standard output is closed. Questions are asked by
?X: outputing on file descriptor #4, which is the original stdout descriptor.
?X: This filters out all the "junk", since all the needed information is written
?X: on #4. Note that ksh will not let us redirect output if the file descriptor
?X: has not be defined yet, unlike sh, hence the following line...--RAM.
exec 4>&1
case "$silent" in
true)
 exec 1>/dev/null;;
esac

: run the defines and the undefines, if any, but leave the file out there...
touch optdef.sh
. ./optdef.sh
: create the posthint manipulation script and leave the file out there...
?X: this file will be perused by Oldconfig.U
```

```
touch posthint.sh
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Options.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Oldsym.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Oldsym.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:06:58  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit follows the creation of the config.sh file. It adds some
?X: special symbols: defines from patchlevel.h file if any and PERL_CONFIG_SH,
?X: which is set to true. Then, we try to keep all the new symbols that
?X: may come from a hint
 file or a previous config.sh file.
?X:
?MAKE:Oldsym: Config_sh cat test hint src sed sort uniq perl_patchlevel
?MAKE: -pick add $@ %<
?T:PERL_CONFIG_SH PERL_PATCHLEVEL sym tmp
?F:!UU
: add special variables
$test -f $src/patchlevel.h && \
awk '/^#define[  ]+PERL_/ {printf "%s=%s\n",$2,$3}' $src/patchlevel.h >>config.sh
echo "PERL_PATCHLEVEL='$perl_patchlevel'" >>config.sh
echo "PERL_CONFIG_SH=true" >>config.sh

: propagate old symbols
if $test -f UU/config.sh; then
?X: Make sure each symbol is unique in oldconfig.sh
 <UU/config.sh $sort | $uniq >UU/oldconfig.sh
?X:
?X: All the symbols that appear twice come only from config.sh (hence the
?X: two config.sh in the command line). These symbols will be removed by
?X: the uniq -u command. The oldsyms file thus contains all the symbols
```

```
?X: that did not appear in the produced config.sh (Larry Wall).
?X:
?X: Do not touch the -u flag of uniq.  This means you too, Jarkko.
?X:
 $sed -n 's/^\([a-zA-Z_0-9]*\)=.*/\1/p' \
  config.sh config.sh UU/oldconfig.sh
 |\
  $sort | $uniq -u >UU/oldsyms
 set X `$cat UU/oldsyms`
 shift
 case $# in
 0) ;;
 *)
  $cat <<EOM
Hmm...You had some extra variables I don't know about...I'll try to keep 'em...
EOM
  echo ": Variables propagated from previous config.sh file." >>config.sh
  for sym in `$cat UU/oldsyms`; do
   echo "    Propagating $hint variable "'$'"$sym..."
   eval 'tmp="$'"${sym}"'"'
   echo "$tmp" | \
    sed -e "s/'/'\''\''/g" -e "s/^/$sym='/" -e "s/$/'/" >>config.sh
  done
  ;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Oldsym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:usevendorprefix vendorprefix vendorprefixexp +oldvendorprefix: \
 Getfile Loc Oldconfig cat prefix Myread
?MAKE: -pick add $@ %<
```

```
?S:usevendorprefix:
?S: This variable tells whether the vendorprefix
?S: and consequently other vendor* paths are in use.
?S:.
?S:vendorprefix:
?S: This variable holds the full absolute path of the directory below
?S: which
 the vendor will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:vendorprefixexp:
?S: This variable holds the full absolute path of the directory below
?S: which the vendor will install add-on packages.  Derived from vendorprefix.
?S:.
?S:oldvendorprefix:
?S: This variable is set non-null if the vendorprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the vendorprefix variables
$cat <<EOM

The installation process will also create a directory for
vendor-supplied add-ons.  Vendors who supply perl with their system
may find it convenient to place all vendor-supplied files in this
directory rather than in the main distribution directory.  This will
ease upgrades between binary-compatible maintenance versions of perl.

Of course you may also use these directories in whatever way you see
fit.  For example, you might use them to access modules shared over a
company-wide network.

The default answer should be
 fine for most people.
This causes further questions about vendor add-ons to be skipped
and no vendor-specific directories will be configured for perl.

EOM
rp='Do you want to configure vendor-specific add-on directories?'
case "$usevendorprefix" in
define|true|[yY]*) dflt=y ;;
*) : User may have set vendorprefix directly on Configure command line.
 case "$vendorprefix" in
 "|' ') dflt=n ;;
 *) dflt=y ;;
 esac
 ;;
esac
. ./myread
```

```
case "$ans" in
[yY]*) fn=d~+
 rp='Installation prefix to use for vendor-supplied add-ons?'
 case "$vendorprefix" in
 '') dflt="$prefix" ;;
 *)  dflt=$vendorprefix ;;
 esac
 . ./getfile
 : XXX Prefixit unit does not yet support siteprefix and vendorprefix
 oldvendorprefix=''
 case "$vendorprefix" in
 '') ;;
 *) case "$ans" in
  "$prefix") ;;
  *) oldvendorprefix="$prefix";;
  esac
  ;;
 esac
 usevendorprefix="$define"
 vendorprefix="$ans"
 vendorprefixexp="$ansexp"
 ;;
*) usevendorprefix="$undef"
 vendorprefix=''
 vendorprefixexp=''
 ;;
esac
```

Found in path(s):
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extract.U,v 3.0.1.2 1997/02/28 14:58:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
```

```
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can be doted in order to extract
?X: .SH files with variable substitutions.
?X:
?X: When running
 Configure from a remote directory ($src is not '.'),
?X: then the files will be created in that directory, so beware!
?X:
?MAKE:Extract: src
?MAKE: -pick add $@ %<
?F:./extract
?T:PERL_CONFIG_SH dir file name create mkdir_p
: script used to extract .SH files with variable substitutions
cat >extract <<'EOS'
PERL_CONFIG_SH=true
echo "Doing variable substitutions on .SH files..."
if test -f MANIFEST; then
 set x `awk '{print $1}' < MANIFEST | grep '\.SH$'`
else
 echo "(Looking for .SH files under the source directory.)"
 set x `(cd "$src"; find . -name "*.SH" -print)`
fi
shift
case $# in
0) set x `(cd "$src"; echo *.SH)`; shift;;
esac
if test ! -f "$src/$1"; then
 shift
fi
?X: script to emulate mkdir -p
mkdir_p='
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create";
  name=`echo $name | sed -e "s|^[^/]*$||"`;
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`;
 else
  name="";
 fi;
done;
for file in $create; do
```

```
 mkdir $file;
done
'
for file in $*;
 do
 case "$src" in
 ".")
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (cd "$dir" && . ./$file)
   ;;
  *)
   . ./$file
   ;;
  esac
  ;;
 *)
?X:
?X: When running Configure remotely ($src is not '.'), we cannot source
?X: the files directly, since that would wrongly cause the extraction
?X: where the source lie instead of withing the current directory. Therefore,
?X: we need to 'sh <file' then, which is okay since they will source the
?X: existing config.sh file. It's not possible to use:
?X:  ../src/Configure -S -O -Dsomething
?X: unfortunately since no new config.sh with the -Dsomething override
?X: will be created before running the .SH files. A minor buglet.
?X:
?X: Note that we must create the directory hierarchy ourselves if it does
?X: not exist already, and that is done through a shell emulation of the
?X: 'mkdir -p' command. We don't want to use the $installdir metaconfig
?X: symbol here since that would require too much to
 be configured for
?X: this simple extraction task that may happen quickly with 'Configure -S'.
?X:  -- RAM, 18/03/96
?X:
  case "$file" in
  */*)
   dir=`expr X$file : 'X\(.*\)/'`
   file=`expr X$file : 'X.*/\(.*\)'`
   (set x $dir; shift; eval $mkdir_p)
   sh <"$src/$dir/$file"
   ;;
  *)
   sh <"$src/$file"
   ;;
  esac
```

```
  ;;
 esac
done
if test -f "$src/config_h.SH"; then
 if test ! -f config.h; then
 : oops, they left it out of MANIFEST, probably, so do it anyway.
 . "$src/config_h.SH"
 fi
fi
EOS
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Extract.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Init.U,v 3.0.1.1 1994/10/31 09:45:59 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file
 initializes certain default variables used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
```

```
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X: everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?LINT:extern DJGPP
?LINT:extern _exe
?LINT:change _exe
?LINT:extern is_os2
: Detect odd OSs
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about
 Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
: Amiga OS
   _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
: Stratus VOS
   _exe=".pm"
elif test -n "$DJGPP"; then
: DOS DJGPP
   _exe=".exe"
elif test -f /kern/cookiejar; then
: MiNT
   _exe=""
elif test -d c:/. -o -n "$is_os2" ; then
: OS/2 or cygwin
   _exe=".exe"
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Init.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: patchlevel.U,v 3.0.1.1 1997/02/28 16:18:41 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:     You may distribute under the terms of either the GNU General Public
?RCS:     License or the Artistic License, as specified in the README file.
?RCS:
?RCS: $Log: patchlevel.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  16:18:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:31  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:patchlevel revision version subversion \
 perl_patchlevel version_patchlevel_string \
 api_revision api_version api_subversion api_versionstring: \
 package test rsrc echo awk osname
?MAKE: -pick
 add $@ %<
?S:revision:
?S: The value of revision comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "5".
?S: In patchlevel.h, this is referred to as "PERL_REVISION".
?S:.
?S:patchlevel:
?S: The patchlevel level of this package.
?S: The value of patchlevel comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "6".
?S: In patchlevel.h, this is referred to as "PERL_VERSION".
?S:.
?S:subversion:
?S: The subversion level of this package.
?S: The value of subversion comes from the patchlevel.h file.
?S: In a version number such as 5.6.1, this is the "1".
?S: In patchlevel.h, this is referred to as "PERL_SUBVERSION".
?S: This is unique to perl.
?S:.
?S:version:
?S: The full version number of this package, such as 5.6.1 (or 5_6_1).
?S: This combines revision, patchlevel, and subversion to get the
?S: full version number, including any possible subversions.
```

```
?S: This is suitable for use as a directory name, and hence is
?S: filesystem
 dependent.
?S:.
?S:api_revision:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_revision is the '5'.
?S: Prior to 5.5.640, the format was a floating point number,
?S: like 5.00563.
?S:
?S: perl.c:incpush() and lib/lib.pm will automatically search in
?S: $sitelib/.. for older directories back to the limit specified
?S: by these api_ variables.  This is only useful if you have a
?S: perl library directory tree structured like the default one.
?S: See INSTALL for how this works.  The versioned site_perl
?S: directory was introduced in 5.005, so that is the lowest
?S: possible value.  The version list appropriate for the current
?S: system is determined in inc_version_list.U.
?S:
?S: XXX To do:  Since compatibility can depend on compile time
?S: options (such as bincompat, longlong, etc.) it should
?S: (perhaps) be set by
 Configure, but currently it isn't.
?S: Currently, we read a hard-wired value from patchlevel.h.
?S: Perhaps what we ought to do is take the hard-wired value from
?S: patchlevel.h but then modify it if the current Configure
?S: options warrant.  patchlevel.h then would use an #ifdef guard.
?S:.
?S:api_version:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_version is the '6'.  See api_revision for
?S: full details.  As a special case, 5.5.0 is rendered in the
?S: old-style as 5.005.  (In the 5.005_0x maintenance series,
?S: this was the only versioned directory in $sitelib.)
?S:.
?S:api_subversion:
?S: The three variables, api_revision, api_version, and
?S: api_subversion, specify the version of the oldest perl binary
?S: compatible with the present perl.  In a full version string
?S: such as '5.6.1', api_subversion is the
 '1'.  See api_revision for
?S: full details.
?S:.
?S:api_versionstring:
```

```
?S: This variable combines api_revision, api_version, and
?S: api_subversion in a format such as 5.6.1 (or 5_6_1) suitable
?S: for use as a directory name.  This is filesystem dependent.
?S:.
?S:perl_patchlevel:
?S: This is the Perl patch level, a numeric change identifier,
?S: as defined by whichever source code maintenance system
?S: is used to maintain the patches; currently Perforce.
?S: It does not correlate with the Perl version numbers or
?S: the maintenance versus development dichotomy except
?S: by also being increasing.
?S:.
?S:version_patchlevel_string:
?S: This is a string combining version, subversion and
?S: perl_patchlevel (if perl_patchlevel is non-zero).
?S: It is typically something like
?S: 'version 7 subversion 1'  or
?S: 'version 7 subversion 1 patchlevel 11224'
?S: It is computed here to avoid duplication of code in myconfig.SH
?S: and lib/Config.pm.
?S:.
?LINT:extern LC_ALL
?LINT:extern LANGUAGE
:
 get the patchlevel
echo " "
echo "Getting the current patchlevel..." >&4
if $test -r $rsrc/patchlevel.h;then
 revision=`awk '/define[  ]+PERL_REVISION/ {print $3}' $rsrc/patchlevel.h`
 patchlevel=`awk '/define[  ]+PERL_VERSION/ {print $3}' $rsrc/patchlevel.h`
 subversion=`awk '/define[  ]+PERL_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 api_revision=`awk '/define[  ]+PERL_API_REVISION/ {print $3}' $rsrc/patchlevel.h`
 api_version=`awk '/define[  ]+PERL_API_VERSION/ {print $3}' $rsrc/patchlevel.h`
 api_subversion=`awk '/define[  ]+PERL_API_SUBVERSION/ {print $3}' $rsrc/patchlevel.h`
 perl_patchlevel=`egrep ',"(MAINT|SMOKE)[0-9][0-9]*"' $rsrc/patchlevel.h|tail -1|sed 's/[^0-9]//g'`
else
 revision=0
 patchlevel=0
 subversion=0
 api_revision=0
 api_version=0
 api_subversion=0
 perl_patchlevel=0
 $echo "(You do not have patchlevel.h.  Eek.)"
fi
: Define a handy string here to avoid duplication in myconfig.SH and configpm.
version_patchlevel_string="version $patchlevel subversion $subversion"
case
```

```
 "$perl_patchlevel" in
0|") ;;
*)  perl_patchlevel=`echo $perl_patchlevel | sed 's/.* //'`
   version_patchlevel_string="$version_patchlevel_string patch $perl_patchlevel"
   ;;
esac

$echo "(You have $package $version_patchlevel_string.)"

case "$osname" in
dos|vms)
 : XXX Should be a Configure test for double-dots in filenames.
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d_%d_%d", $1, $2, $3 }'`
 ;;
*)
 version=`echo $revision $patchlevel $subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 api_versionstring=`echo $api_revision $api_version $api_subversion | \
   $awk '{ printf "%d.%d.%d", $1, $2, $3 }'`
 ;;
esac
: Special case the 5.005_xx maintenance series, which used 5.005
: without any subversion label as a subdirectory in $sitelib
if test "${api_revision}${api_version}${api_subversion}" = "550"; then
 api_versionstring='5.005'
fi

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/patchlevel.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Prefixup.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Prefixup.U,v $
?RCS: Revision 3.0.1.1  1995/01/30  14:30:40  ram
?RCS: patch49: created
```

```
?RCS:
?X:
?X: Used as: "set dflt; eval $prefixup" to set $dflt to be $prefix/dir
?X: instead of $prefixexp/dir, in case portability was involved somehow
?X: and $prefix uses ~name expansion.
?X:
?MAKE:Prefixup: prefix prefixexp
?MAKE: -pick add $@ %<
?LINT:define prefixup
?S:prefixup:
?S: This shell variable is used internally by Configure to reset
?S: the leading
 installation prefix correctly when $prefix uses
?S: ~name expansion.
?S:  set dflt
?S:  eval $prefixup
?S: That will set $dflt to $prefix/dir if it was $prefixexp/dir and
?S: $prefix differs from $prefixexp.
?S:.
?V:prefixup
: set the prefixup variable, to restore leading tilda escape
prefixup='case "$prefixexp" in
"$prefix") ;;
*) eval "$1=\`echo \$$1 | sed \"s,^$prefixexp,$prefix,\"\`";;
esac'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Prefixup.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: cf_name.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: cf_name.U,v $
?RCS: Revision 3.0.1.2  1994/05/06  14:29:36  ram
?RCS: patch23: fixed user name computation from /etc/passwd in bsd systems
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:05:11  ram
?RCS: patch16: created
```

```
?RCS:
?RCS:
?MAKE:+cf_name: cf_by passcat Filexp nametype cat test
?MAKE: -pick add $@ %<
?S:cf_name:
?S: Full name of the person who ran the Configure script and
 answered the
?S: questions. This can be used by units that require the user's full name.
?S: This variable is for internal use only.
?S:.
?T:xxx fn NAME
: figure out their full name
case "$NAME" in
") case "$nametype" in
 other)
  fn=`./filexp ~/.fullname`
  xxx=usg
  $test -f $fn && xxx=other
  ;;
 *)
  xxx="$nametype"
  ;;
 esac

 case "$xxx" in
 bsd)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/,.*//'`
  ;;
   usg)
  cf_name=`$passcat | grep "^$cf_by:" | \
   sed -e 's/^[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\):.*/\1/' \
   -e 's/[^-]*-\(.*\)(.*)/\1/'`
  ;;
 *)
  cf_name=`$cat $fn`
  ;;
 esac
 ;;
*)
 cf_name="$NAME"
 ;;
esac
?X:
?X: In the original unit, Graham asked for the user name, in case the above
?X: code was unable to figure it out correctly. Since now cf_name has been
?X: made an internal variable only (i.e. it is not saved in config.sh), letting
```

```
?X: the user override the computed default each time would be a pain.
?X:
 Therefore, I have decided to trust the above code to get it right, and for
?X: those rare cases where it will fail, too bad :-) --RAM.
?X:
echo " "
echo "Pleased to meet you, $cf_name."
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_name.U
No license file was found, but licenses were detected in source scan.

```
?RCS: Copyright (c) 2016 Dagfinn Ilmari Mannsker & H.Merijn Brand
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X: To use it, say:
?X: set d_siginfo_si_errno siginfo_t int si_errno $d_sigaction signal.h
?X: eval $hasfield_t;
?X:
?MAKE:Hasfield_t: test Compile rm_try Setvar
?MAKE: -pick add $@ %<
?LINT:define hasfield_t
?S:hasfield_t:
?S: Internal macro for Configure
?S:.
?V:hasfield_t:
?T:varname struct type field
: Define hasfield_t macro for Configure internal use
hasfield_t='varname=$1; struct=$2; type=$3; field=$4; shift; shift; shift; shift;
while $test $# -ge 2; do
   case
 "$1" in
 $define) echo "#include <$2>";;
   esac ;
   shift 2;
done > try.c;
echo "int main () { $struct foo; $type bar = foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
```

```
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Hasfield_t.U
No license file was found, but licenses were detected in source scan.

?RCS: You may redistribute only under the terms of the Artistic License,

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sresuproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethbynm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_malloc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_vprintf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_nanosleep.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_mbrlen.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scannl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Findhdr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_db.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ssizetype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_drand48proto.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sigprocmask.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/need_va_copy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getsent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/bitpbyte.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/byteorder.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ustat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_pthread_attr_ss.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/lseektype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/bin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d__fwalk.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_backtrace.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_csh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_grp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_termio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_ndbm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mmap.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_scannl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/floatsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isblank.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/i_pthread.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgrp.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_eofpipe.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/scriptdir.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_varhdr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_inttypes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_strtoul.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Guess.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_open3.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/pidtype.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/issymlink.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/modetype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/charorder.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strerror.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidsign.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_access.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/floatsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_gnulibc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/orderlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_flockproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_flexfnam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_poll.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/i_syssecrt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_c99_variadic.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_vfork.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/fpostype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sgndchr.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/bitpbyte.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_gethostprotos.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_statblks.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_mbrtowc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/errnolist.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/doublesize.U
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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/mallocsrc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpagsz.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dosuid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_castneg.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorscript.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_malloc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_safebcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cppstdin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sresgproto.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidtype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_volatile.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_casti32.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_malloc_size.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_time.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_wcscmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dbminitproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sockatmarkproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_lchown.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/instubperl.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorlib.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Guess.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_open3.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ccflags.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sigaction.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Config_sh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_castneg.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/i_time.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endpent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_sethent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/fflushall.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_strerror.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgrp.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_inttypes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_telldirproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/otherlibdirs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msg.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mprotect.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_portable.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_const.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_shmat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_statblks.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/byteorder.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_db.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_wifstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_safemcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randfunc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/fpossize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_keepsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getnetprotos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/usrinc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/i_machcthr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_static_inline.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getspnam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dlopen.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_attribut.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dladdr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_syscallproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/selecttype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Config_sh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_fd_set.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_gconvert.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_gethname.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Cppsym.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidtype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/prefix.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gconvert.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dirfd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_shm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_isascii.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_wcrtomb.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/d_times.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getprotoprotos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_usleepproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Oldconfig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/alignbytes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_socket.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/gccvers.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sanemcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_sanemcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getespwnam.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dosuid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_wctype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endnent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpwent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_neterrno.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/nblock_io.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_time.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/sizetype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_mallocmalloc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/d_getservprotos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_pwd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/d_time.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setpent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_execinfo.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/myhostname.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_NOFILE.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_voidsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/abortsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_times.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strctcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_builtin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sbrksmart.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Cross.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_socket.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_netinettcp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/cpp_stuff.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/stdio_streams.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_int64_t.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Tr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/gccvers.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_isascii.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sgndchr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/bin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_bitfield.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setsent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_vprintf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ccflags.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_attribut.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/sockopt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/nullified/fpu.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/archname.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_htonl.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Cppsym.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lc_monetary_2008.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/ptrsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/d_stdstdio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_mmap.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wifstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sig_name.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/gidsign.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/charsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/st_ino_def.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_varhdr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/inc_version_list.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/cppstdin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gnulibc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigaction.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dlopen.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: lib.U,v 3.0.1.3 1995/09/25 09:16:47 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of

```
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: lib.U,v $
?RCS: Revision 3.0.1.3  1995/09/25  09:16:47  ram
?RCS: patch59: unit is now forced to the top of Configure, if possible
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:38:08  ram
?RCS: patch49: can now handle installation prefix changes (from WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:27:40  ram
?RCS: patch32: now uses installation prefix to set the default
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:56  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?LINT:
 empty
?X:?MAKE:lib libexp: Getfile Loc Oldconfig Prefixit Prefixup prefixexp
?X:?MAKE: -pick add $@ %<
?X:?Y:TOP
?X:?S:lib:
?X:?S: This variable holds the name of the directory in which the user wants
?X:?S: to put public library files for the package in question.  It is most
?X:?S: often a local directory such as /usr/local/lib. Programs using this
?X:?S: variable must be prepared to deal with filename expansion.
?X:?S:.
?X:?S:libexp:
?X:?S: This variable is the same as the lib variable, but is filename expanded
?X:?S: at configuration time, for convenient use in your makefiles.
?X:?S:.
?X:: determine where public libraries go
?X:set lib lib
?X:eval $prefixit
?X:case "$lib" in
?X:")
?X: dflt=`./loc . "." $prefixexp/lib /usr/local/lib /usr/lib /lib`
?X: set dflt
?X: eval $prefixup
?X: ;;
?X:*)  dflt="$lib";;
?X:esac
?X:echo " "
?X:fn=d~
?X:rp='Where do you want to put the public libraries?'
?X:. ./getfile
?X:lib="$ans"
?X:libexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/nullified/lib.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man3dir.U,v 3.1 1999/07/08 20:52:19 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996-1999, Andy Dougherty
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: man3dir.U,v $
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:34  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and man3dir.  This unit is basically dist's mansrc.U with
?X: man3 used instead
 of man everywhere.
?X: I then added various tests because perl5 has *lots* of man3
?X: pages with long file names. -- ADO
?X:
?MAKE:man3dir man3direxp man3ext installman3dir: cat nroff Loc Oldconfig \
 sed man1dir spackage package Getfile Setprefixvar Prefixit Prefixup \
 d_flexfnam privlib Myread test
?MAKE: -pick add $@ %<
?Y:TOP
?D:man3dir=''
?S:man3dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man3direxp=''
?S:man3direxp:
?S: This variable is the same as the man3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
```

```
?D:installman3dir="
?S:installman3dir:
?S: This variable is really the same as man3direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man3direxp only
 points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?S:man3ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '3'.  The Makefile must supply the '.'.
?S: See man3dir.
?S:.
?T:prog tdflt
?LINT:change prefixvar
?LINT:set man3direxp
: determine where library module manual pages go
set man3dir man3dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages for many of the library modules.
EOM

case "$nroff" in
nroff)
 $cat <<'EOM'
However, you don't have nroff, so they're probably useless to you.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

case "$d_flexfnam" in
undef)
 $cat <<'EOM'
However, your system can't handle the long file names like File::Basename.3.
EOM
 case "$man3dir" in
 ") man3dir="none";;
 esac;;
esac

echo "If you don't want the manual sources installed, answer 'none'."
?X: In 5.005_57 and earlier, I had the following notes:
?X:
```

```
 We do not use /usr/local/man/man3 because some man programs will
?X: only show the /usr/local/man/man3 contents, and not the system ones,
?X: thus man less will show the perl module less.pm, but not the system
?X: less command.  We might also conflict with Tcl man pages.
?X: However, something like /opt/perl/man/man3 is fine.
?X:
?X: However, opinion seems to be shifting such that 'man POSIX' ought
?X: to just work.  -- Andy Dougherty  July 8, 1999
?X:
?X: remove any trailing -3.0 or other version indication from $package
prog=`echo $package | $sed 's/-*[0-9.]*$//'`
case "$man3dir" in
") dflt=`echo "$man1dir" | $sed -e 's/man1/man3/g' -e 's/man\.1/man\.3/g'`
 if $test -d "$privlib/man/man3"; then
  cat <<EOM >&4

WARNING:  Previous versions of perl installed man3 pages into
$privlib/man/man3.  This version will suggest a
new default of $dflt.
EOM
  tdflt=$dflt
  dflt='n'
  rp='Do you wish to preserve the old behavior?(y/n)'
  . ./myread
  case "$ans" in
  y*) dflt="$privlib/man/man3"
 ;;
  *)  dflt=$tdflt ;;
  esac
   fi
 ;;
*) dflt="$man3dir" ;;
esac
case "$dflt" in
' ') dflt=none ;;
esac
echo " "
fn=dn+~
rp="Where do the $package library man pages (source) go?"
. ./getfile
prefixvar=man3dir
. ./setprefixvar

case "$man3dir" in
") man3dir=' '
 installman3dir=";;
esac
```

```
: What suffix to use on installed man pages
case "$man3dir" in
' ')
 man3ext='0'
 ;;
*)
 rp="What suffix should be used for the $package library man pages?"
 case "$man3ext" in
 ") case "$man3dir" in
  *3)  dflt=3 ;;
  *3p) dflt=3p ;;
  *3pm) dflt=3pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L3) dflt=L3;;
  *) dflt=3;;
  esac
  ;;
 *) dflt="$man3ext";;
 esac
 . ./myread
 man3ext="$ans"
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/man3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Typedef.U,v 3.0.1.3 1995/07/25 13:42:07 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Typedef.U,v $
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
```

```
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef
 val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef: cppstdin cppminus cppflags rm sed contains Oldconfig Myread
?MAKE: -pick add $@ %<
?LINT:define typedef
?LINT:define typedef_ask
?V:typedef typedef_ask
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?S:typedef_ask:
?S: This shell variable is used internally by Configure to check
?S: whether a given typedef is defined or not.  If it is not defined,
?S: this will call the ./myread script to prompt for an answer.
?S: It is intended to be used to avoid unnecessary prompts.
?S: A typical use is
?S:  rp="What is the type for file position used by fsetpos()?"
?S:  set fpos_t fpostype long stdio.h sys/types.h
?S:  eval $typedef_ask
?S: This
 will set fpostype=fpos_t, if fpos_t is available.  Otherwise
?S: it will call myread with a default of 'long', and a prompt of $rp.
?S:.
?T:type var def inclist varval inc
?F:!temp.c
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
```

```
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'

?X: Originally, I eval'd $typedef and then checked the results against
?X: $type.  Unfortunately, it then became complicated to check
?X: whether you are re-using
 an old config.sh value, and the logic got
?X: so convoluted it became easier to just copy the function above
?X: and alter it slightly.  A.D.  3/1998
: define an is-a-typedef? function that prompts if the type is not available.
typedef_ask='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
?X: Maybe it's a #define instead of a typedef.
 echo "#ifdef $type" >> temp.c;
 echo "printf(\"We have $type\");" >> temp.c;
 echo "#endif" >> temp.c;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 echo " " ;
 echo "$rp" | $sed -e "s/What is/Looking for/" -e "s/?/./";
 if $contains $type temp.E >/dev/null 2>&1; then
  echo "$type found." >&4;
  eval "$var=\$type";
 else
```

```
  echo "$type NOT found." >&4;
  dflt="$def";
  . ./myread ;
  eval "$var=\$ans";
 fi;
 $rm -f temp.?;;
*) eval "$var=\$varval";;
esac'
```

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/Typedef.U
No license file was found, but licenses were detected in source scan.

```
/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
```

```
case "$xxx" in
/*|?:[\/]*)
if test -f "$xxx"; then
: ok
else
./warn "no $xxx -- ignoring your setting for $file."
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx
 $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$_grep
;;
esac
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$_cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
```

```
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$_gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into
 your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
```

```
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible.  In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c=";;
esac
cat <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built
 in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Loc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Myinit.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:47:29  ram
?RCS: patch44: leading comment states this unit comes before option processing
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
```

```
?X: If you want to initialize any default values, copy this unit to your
?X: personal U directory and add the assignments to the end.  This file
?X: is included after variables are initialized but before any old
?X: config.sh file is read in and before
 any Configure switch processing.
?X:
?MAKE:Myinit: Init
?MAKE: -pick add $@ %<
?LINT: nocomment
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Myinit.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitebin.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitebin.U,v $
?RCS:
?MAKE:sitebin sitebinexp installsitebin : Getfile Oldconfig \
 Setprefixvar siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitebin=''
?S:sitebin:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard distribution will put nothing
 in this directory.
?S: After perl has been installed, users may install their own local
?S: executables in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitebinexp=''
?S:sitebinexp:
?S: This is the same as the sitebin variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
```

```
?D:installsitebin="
?S:installsitebin:
?S: This variable is usually the same as sitebinexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitebin
?LINT:set sitebin
?LINT:set sitebinexp
: determine where add-on public executables go
case "$sitebin" in
") dflt=$siteprefix/bin ;;
*) dflt=$sitebin ;;
esac
fn=d~
rp='Pathname where the add-on public executables should be installed?'
. ./getfile
prefixvar=sitebin
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitebin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Whoa.U,v 3.0.1.2 1997/02/28 15:21:21 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable
```

```
 is noticed.
?X:
?X: To use this unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was td tu hintfile
: set up the script used to warn in case of inconsistency
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
case "$hint" in
   recommended)
 case "$hintfile" in
 ") echo "The $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 *) echo "Hmm.  Based on the hints in hints/$hintfile.sh, " >&4
  echo "the $hint value for \$$var on this machine was \"$was\"!" >&4
  ;;
 esac
 ;;
   *) echo " "
 echo "*** WHOA THERE!!! ***" >&4
 echo "    The $hint value for \$$var on this machine was
 \"$was\"!" >&4
 ;;
esac
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Orginal Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: lex.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:22:50  ram
?RCS: patch36: spurious single quote could cause Configure to crash
?RCS: patch36: (reported by Xavier Le Vourch <xavierl@eiffel.com>.)
?RCS:
?RCS: Revision 3.0.1.2  1994/08/29  16:27:09  ram
?RCS: patch32: added lexflags variable for lex flags setting
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:06:01  ram
?RCS: patch23: added
 trailing blank line for metalint
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lex lexflags: Guess Myread Oldconfig flex test
?MAKE: -pick add $@ %<
?S:lex:
?S: This variable holds the name of the lexical analyser generator we
?S: want to use in the Makefile. It can be lex or flex.
?S:.
?S:lexflags:
?S: This variable holds any flags that should be passed to the lexical
?S: analyzer.  It is up to the Makefile to use it.
?S:.
: determine lexical analyser generator
case "$lex" in
")
 dflt=lex;;
*)
 dflt="$lex";;
esac
echo " "
if $test -f "$flex"; then
 rp='Which lexical analyser generator (lex or flex) shall I use?'
else
 rp='Which lexical analyser generator shall I use?'
fi
. ./myread
```

```
lex="$ans"

@if lexflags
: if using lex this will normally be useless, but flex frequently takes args
echo " "
case "$lexflags" in
") dflt='none';;
*) dflt="$lexflags";;
esac
rp="What flags should be given to $lex?"
. ./myread
case "$ans"
 in
none) lexflags=";;
*) lexflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall:
```

```
 Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
 test "$override" && . ./optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Extractall.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Csym.U,v $
?RCS: Revision 3.0.1.4  1995/07/25  13:36:29  ram
?RCS: patch56: re-arranged compile line to include ldflags before objects
?RCS: patch56: added quotes for OS/2 support
?RCS:
?RCS: Revision 3.0.1.3  1995/05/12  12:00:33  ram
```

```
?RCS: patch54: fixed C test program to bypass gcc builtin type checks (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/31  09:34:13  ram
?RCS: patch44: added Options to the MAKE line since it's no longer in Init.U
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:00:05  ram
?RCS:
 patch6: added ldflags as a conditional dependency and to compile line
?RCS: patch6: a final double quote was missing in csym variable after eval
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:50  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:Csym: Options contains libc libs runnm +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?LINT:define csym
?LINT:use libc
?S:csym:
?S: This shell variable is used internally by Configure to check
?S: wether a given C symbol is defined or not. A typical use is:
?S:  set symbol result [-fva] [previous]
?S:  eval $csym
?S: That will set result to 'true' if the function [-f], variable [-v]
?S: or array [-a] is defined, 'false' otherwise. If a previous value is
?S: given and the -r flag was provided on the command line, that value
?S: is reused without questioning.
?S:.
?V:csym
?T:tval tx tlook tf tdc tc
: is a C symbol defined?
csym='tlook=$1;
case "$3" in
-v) tf=libc.tmp; tc=""; tdc="";;
-a) tf=libc.tmp; tc="[0]"; tdc="[]";;
*) tlook="^$1\$";
 tf=libc.list; tc=""; tdc="()";;
esac;
tx=yes;
case "$reuseval-$4" in
true-) ;;
true-*) tx=no; eval "tval=\$$4"; case "$tval" in "") tx=yes;; esac;;
esac;
case "$tx" in
yes)
 case "$runnm" in
 true)
  if $contains $tlook $tf >/dev/null 2>&1;
  then tval=true;
```

```
  else tval=false;
  fi;;
 *)
?X:
?X: We use 'char' instead of 'int' to try to circumvent overzealous
?X: optimizing compilers using built-in prototypes for commonly used
?X: routines to complain when seeing a different external declaration. For
?X: instance, gcc 2.6.3 fails if we use 'int' and we attempt a test against
?X: memcpy() on machines where sizeof(int) == sizeof(char *) (the usual return
?X: type), the compiler assuming it's a built-in declaration given that the
?X: returned size matches. At least with 'char' we are safe! -- RAM, for ADO
?X:
?X: Let's thank GNU cc for making our lifes so easy! :-)
?X: (An alternative for the future would be to use our knowledge about gcc
?X: to force a -fno-builtin option in the
 compile test, in case the 'char'
?X: trick is obsoleted by future gcc releases). -- RAM
?X:
?X: Lastly, gcc 3.4 otimizes &missing == 0 away, so we use + 2 instead now.
?X: The GNU folks like to do weird things, don't they? -- RAM, 2004-06-05
?X:
  echo "extern char $1$tdc; int main() { return &$1$tc + 2; }" > t.c;
  if $cc $ccflags $ldflags -o t t.c $libs >/dev/null 2>&1;
  then tval=true;
  else tval=false;
  fi;
  $rm -f t t.c;;
 esac;;
*)
 case "$tval" in
 $define) tval=true;;
 *) tval=false;;
 esac;;
esac;
eval "$2=$tval"'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Csym.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Mkdirp.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extract.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:58:52  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  15:51:46  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:52  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which can launched to create a
?X: directory path like "mkdir -p" would do.
?X:
?MAKE:Mkdirp:
 eunicefix startsh
?MAKE: -pick add $@ %<
?F:./mkdirp
?T:name create file
: script used to emulate mkdir -p
cat >mkdirp <<EOS
$startsh
EOS
cat >>mkdirp <<'EOS'
name=$1;
create="";
while test $name; do
 if test ! -d "$name"; then
  create="$name $create"
  name=`echo $name | sed -e "s|^[^/]*$||"`
  name=`echo $name | sed -e "s|\(.*\)/.*|\1|"`
 else
  name=""
 fi
done
for file in $create; do
 mkdir $file
done
EOS
chmod +x mkdirp
$eunicefix mkdirp
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Mkdirp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: so.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: so.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  16:30:04  ram
?RCS: patch36: now tells user how he can suppress shared lib lookup (ADO)
?RCS: patch36: removed echo at the top, since it's now in the here-doc (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1994/06/20  07:07:02  ram
?RCS: patch30: created
?RCS:
?X:
?X: This unit computes the shared-object / shared-lib extension
?X:
?MAKE:so d_libname_unique: test libpth Loc Myread Oldconfig cat Setvar
?MAKE: -pick add $@ %<
?S:so:
?S: This
 variable holds the extension used to identify shared libraries
?S: (also known as shared objects) on the system. Usually set to 'so'.
?S:.
?S:d_libname_unique:
?S: This variable is defined if the target system insists on unique
?S: basenames for shared library files. This is currently true on Android,
?S: false everywhere else we know of.
?S: Defaults to 'undef'.
?S:.
?LINT:set d_libname_unique
?T: xxx
: compute shared library extension
case "$so" in
")
 if xxx=`./loc libc.sl X $libpth`; $test -f "$xxx"; then
  dflt='sl'
 else
  dflt='so'
 fi
 ;;
*) dflt="$so";;
esac
$cat <<EOM
```

```
On some systems, shared libraries may be available.  Answer 'none' if
you want to suppress searching of shared libraries for the remainder
of this configuration.

EOM
rp='What is the file extension used for shared libraries?'
. ./myread
so="$ans"

: Does target system insist that shared library basenames are unique
$cat << EOM

Some dynamic loaders assume that the *basename* of shared library
 filenames
are globally unique.  We'll default this to undef as we assume your system
is not this weird. Set to defined if you're on one of them.

EOM

dflt='n'
rp='Make shared library basenames unique?'
. ./myread
case "$ans" in
y|Y) val="$define" ;;
*)   val="$undef"  ;;
esac
set d_libname_unique
eval $setvar

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/so.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Chk_MANI.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_MANI.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  14:57:25  ram
?RCS: patch61: added support for src.U
?RCS:
```

```
?RCS: Revision 3.0.1.1  1994/10/31  09:33:14  ram
?RCS: patch44: now lists Begin instead of Myinit in its dependencies
?RCS: patch44: leading comment now explains how this unit is included
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:45  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks the package by making sure
 every file listed in MANIFEST
?X: is present. It is systematically "included" via the Finish unit (which
?X: is always present in every Configure script), although it may result in
?X: an empty inclusion when no MANIFEST is present.
?X:
?MAKE:Chk_MANI: Begin c n rsrc
?MAKE: -pick wipe $@ %<
?T:filelist ans tmppwd
?X: This check happens at metaconfig-time, so it's ok to hard-code the path.
@if {test -f ../MANIFEST}
: Now test for existence of everything in MANIFEST
echo " "
if test -f "$rsrc/MANIFEST"; then
 echo "First let's make sure your kit is complete.  Checking..." >&4
?X:
?X: Files spelled uppercased and beginning with PACK are produced by the
?X: shell archive builder and may be removed by the user. Usually, they are
?X: not listed in the MANIFEST file, but you never know...
?X:
?X: "split -l" is the new way of running a split, but we also try the older way
?X:
 awk '$1 !~ /PACK[A-Z]+/ {print $1}' "$rsrc/MANIFEST" | \
  (split -l 50 2>/dev/null || split -50)
 rm -f missing
 tmppwd=`pwd`
 for
 filelist in x??; do
  (cd "$rsrc"; ls `cat "$tmppwd/$filelist"` \
   >/dev/null 2>>"$tmppwd/missing")
 done
 if test -s missing; then
  cat missing >&4
  cat >&4 <<'EOM'

THIS PACKAGE SEEMS TO BE INCOMPLETE.

You have the option of continuing the configuration process, despite the
distinct possibility that your kit is damaged, by typing 'y'es.  If you
do, don't blame me if something goes wrong.  I advise you to type 'n'o
```

```
and contact the author (<MAINTLOC>).

EOM
?X: Can't use $echo at this early stage
  echo $n "Continue? [n] $c" >&4
  read ans
  case "$ans" in
  y*)
   echo "Continuing..." >&4
   rm -f missing
   ;;
  *)
?X:
?X: Use kill and not exit, so that the trap gets executed to clean up
?X:
   echo "ABORTING..." >&4
   kill $$
   ;;
  esac
 else
  echo "Looks good..."
 fi
else
 echo "There is no MANIFEST file.  I hope your kit is complete !"
fi
rm -f missing x??

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Chk_MANI.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: installprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
```

```
?RCS:
?RCS:
?MAKE:installprefix installprefixexp: Getfile Loc \
 Oldconfig afs cat package prefix
?MAKE: -pick add $@ %<
?S:installprefix:
?S: This variable holds the name of the directory below which
?S: "make install" will install the package.  For most users, this
?S: is the same
 as prefix.  However, it is useful for
?S: installing the software into a different (usually temporary)
?S: location after which it can be bundled up and moved somehow
?S: to the final location specified by prefix.
?S:.
?S:installprefixexp:
?S: This variable holds the full absolute path of installprefix
?S: with all ~-expansion done.
?S:.
: determine installation prefix for where package is to be installed.
if $afs; then
$cat <<EOM

Since you are running AFS, I need to distinguish the directory in which
files will reside from the directory in which they are installed (and from
which they are presumably copied to the former directory by occult means).

EOM
 case "$installprefix" in
 ") dflt=`echo $prefix | sed 's#^/afs/#/afs/.#'`;;
 *) dflt="$installprefix";;
 esac
else
$cat <<EOM

In some special cases, particularly when building $package for distribution,
it is convenient to distinguish the directory in which files should be
installed from the directory ($prefix) in which they will
eventually
 reside.  For most users, these two directories are the same.

EOM
 case "$installprefix" in
 ") dflt=$prefix ;;
 *) dflt=$installprefix;;
 esac
fi
fn=d~
rp='What installation prefix should I use for installing files?'
```

```
. ./getfile
installprefix="$ans"
installprefixexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/installprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch test
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic links (if they are supported).
  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$rm -f blurfl sym
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 && $test -f sym; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
```

$rm -f blurfl sym

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lns.U
No license file was found, but licenses were detected in source scan.

?RCS: You may redistribute only under the terms of the Artistic Licence,

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_arpainet.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fork.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmdt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memccpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setprior.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_popen.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgrp2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_link.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_lstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/compiler_warning.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_pipe2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setsid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dbm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_limits.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_vfork.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_setlocale.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syswait.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_truncate.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/locdist.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_alarm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scandir.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_siglist.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtol.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Getfile.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pause.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgsnd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_stddef.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_whoami.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Magic_h.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bzero.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getprior.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strchr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mktime.U
*

/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Loc_sed.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_stat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_float.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memmove.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_seteuid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_stdint.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fcntl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getwd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ctermid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigblock.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_values.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_xdrs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_uwait.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_system.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_speedopt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_euc2jis.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_SHM_MAC.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mblen.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_math.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_stdlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_normsig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysfile.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getppid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strxfrm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_nolnbuf.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fsetpos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_waitpid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ckeypad.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_preadv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_scorfl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgrcv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_regex.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semget.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msync.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fmod.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_symlink.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_syslog.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getgrps.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_syscall.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_NeWS.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sjis2jis.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mkdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/groupstype.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_locconv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_locale.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tzmin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_flock.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setruid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_dbl_dig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_cuserid.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cppfilecom.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pwrite.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgrp2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ilp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_fcntl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setlocale.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_lockf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rename.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_charsprf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_su_chown.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mkfifo.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_accept4.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_raster.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_select.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_table.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wait4.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_itimer.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_poll.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysresrc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dup2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fgetpos.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getlogin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strccmp.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_psignal.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/ipc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_stdlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/vaproto.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_drem.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_usleep.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_killpg.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setegid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setpgid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dlfcn.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syssock.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chsize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mbtowc.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fchmod.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sbrk.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ftime.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msem_lck.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setreuid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_niin.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_nice.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sfio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sysconf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bsdjmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_gdbm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semctl.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tminsys.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Obsol_h.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_crypt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memset.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_readlink.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rmdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chown.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Assert.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wait3.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysselct.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_difftime.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pidcheck.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ftrncate.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/filexp_path.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dbl_dig.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tcstpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fenv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systimeb.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systwgcf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systimes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_cbrt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_dld.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_termio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tcgtpgrp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/defeditor.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgctl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wctomb.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setgrps.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_string.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_wcstombs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pipe.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cpp_trad.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ffs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pwritev.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_PORTAR.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_hidnet.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_regcmp.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pathconf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rusage.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_inetd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_mbstowcs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_dlerror.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systypes.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_havetlib.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmget.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_unistd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_memory.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_umask.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysstat.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strdup.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_linuxstd.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigsetmk.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_gethid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtok.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strtod.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strcoll.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_brokstat.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Prefixit.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_ulimit.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Obsol_sh.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_utime.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_inetaton.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_rdchk.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/basicshell.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setlnbuf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_perror.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_dup3.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getopt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_munmap.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setrgid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strcspn.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysndir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_memalign.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_semop.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_systable.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_internet.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_pread.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_setregid.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysun.U

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* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_syspoll.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sighold.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bcmp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_chroot.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_strstr.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_usendir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysparam.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkostemp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/i_sysioctl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_bcopy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_newsadm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_fchown.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_tzname.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_msgget.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_shmctl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_readdir.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_sigvec.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/d_getpgid.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cf_email.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:05:06  ram
?RCS: patch16: created
?RCS:
?RCS:
?MAKE:cf_email: cat cf_by test myhostname mydomain Oldconfig Myread
?MAKE: -pick add $@ %<
?S:cf_email:
?S: Electronic mail address of the person who ran Configure. This can be
?S: used by units that require the user's e-mail, like MailList.U.
?S:.
?T:cont maildomain
?LINT:extern MAILDOMAIN
: determine the e-mail address of the user who is running us
$cat <<EOM

I need to get your e-mail address
```

```
 in Internet format if possible, i.e.
something like user@host.domain. Please answer accurately since I have
no easy means to double check it. The default value provided below
is most probably close to reality but may not be valid from outside
your organization...

EOM
cont=x
while test "$cont"; do
 case "$MAILDOMAIN" in
 ")
  if $test -s /etc/mailname; then
   maildomain=`$cat /etc/mailname`
  else
   maildomain="$myhostname$mydomain"
  fi
  ;;
 *)  maildomain="$MAILDOMAIN";;
 esac
 case "$cf_email" in
 ") dflt="$cf_by@$maildomain";;
 *)  dflt="$cf_email";;
 esac
 rp='What is your e-mail address?'
 . ./myread
 cf_email="$ans"
 case "$cf_email" in
 *@*.*) cont=" ;;
 *)
  rp='Address does not look like an Internet one.  Use it anyway?'
  case "$fastread" in
  yes) dflt=y ;;
  *) dflt=n ;;
  esac
  . ./myread
  case "$ans" in
  y*) cont=" ;;
  *) echo " " ;;
  esac
  ;;
 esac
done
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cf_email.U
No license file was found, but licenses were detected in source scan.

/*|?:[\\/]*)

```
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*) xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't know where '$file' is, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
exit 1
;;
esac
done
echo " "
echo "Don't worry if any of the following aren't found..."
say=offhand
for file in $trylist; do
?X: Allow them to -Dmake=pmake on the command line for instance (see above)
eval xxx=\$$file
case "$xxx" in
/*|?:[\\/]*)
if test -f "$xxx"; then
: ok
else
echo "WARNING: no $xxx -- ignoring your setting for $file." >&4
xxx=`./loc $file $file $pth`
fi
;;
") xxx=`./loc $file $file $pth`;;
*)
 xxx=`./loc $xxx $xxx $pth`;;
esac
eval $file=$xxx$_exe
eval _$file=$xxx
```

```
case "$xxx" in
/*)
echo $file is in $xxx.
;;
?X: Under OS/2, we have PC-like paths
?:[\\/]*)
echo $file is in $xxx.
;;
*)
echo "I don't see $file out there, $say."
say=either
;;
esac
done
case "$egrep" in
egrep)
echo "Substituting grep for egrep."
egrep=$grep
_egrep=$grep
;;
esac
@if less
case "$less" in
") ;;
*) if $less -R </dev/null >/dev/null 2>&1; then
echo "Substituting less -R for less."
less="$less -R"
_less=$less
fi
;;
esac
@end
@if ln
case "$ln" in
ln)
echo "Substituting cp for ln."
ln=$cp
_ln=$cp
;;
esac
@end
@if make || gmake
case "$make" in
make)
case "$gmake" in
gmake)
echo "I can't find make or gmake, and my life depends on it." >&4
echo "Go find a public domain implementation or fix your PATH setting!" >&4
```

```
exit 1
;;
esac
;;
esac
case "$gmake" in
gmake) ;;
*) # We can't have osname yet.
if test -f "/system/gnu_library/bin/ar.pm"; then # Stratus VOS
# Assume that gmake, if found, is definitely
 GNU make
# and prefer it over the system make.
echo "Substituting gmake for make."
make=$gmake
_make=$gmake
fi
;;
esac
@end
case "$test" in
test)
echo "Hopefully test is built into your sh."
;;
*)
if `sh -c "PATH= test true" >/dev/null 2>&1`; then
echo "Using the test built into your sh."
?X:
?X: We need to set both test and _test, since Oldconfig.U will use the _test
?X: value to systematically restore computed paths, which may be wrong if
?X: we choose to load an old config.sh generated on another platform.
?X:
test=test
_test=test
fi
;;
esac
?LINT:change n c
case "$echo" in
echo)
echo "Hopefully echo is built into your sh."
;;
?X: For those rare cases where we don't need $echo...
") ;;
*)
echo " "
echo "Checking compatibility between $echo and builtin echo (if any)..." >&4
$echo $n "hi there$c" >foo1
echo $n "hi there$c" >foo2
```

```
if cmp foo1 foo2 >/dev/null 2>&1; then
echo "They are compatible.  In fact, they may be identical."
else
case "$n" in
'-n') n=" c='\c';;
*) n='-n' c=";;
esac
cat
 <<FOO
They are not compatible!  You are probably running ksh on a non-USG system.
I'll have to use $echo instead of the builtin, since Bourne shell doesn't
have echo built in and we may have to run some Bourne shell scripts.  That
means I'll have to use '$n$c' to suppress newlines now.  Life is ridiculous.

FOO
$echo $n "The star should be here-->$c"
$echo "*"
fi
$rm -f foo1 foo2
;;
esac

?X: The next part is irrelevant to the real process
# This question was auctioned at YAPC::Europe-2007 in Vienna
# I never promised you could answer it. I only auctioned the question.
cat <<FOO
The following message is sponsored by

Dresden.pm<--The stars should be here.

Dear Perl user, system administrator or package
maintainer, the Perl community sends greetings to
you. Do you (emblematical) greet back [Y/n]? n

FOO

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Loc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Setvar.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Setvar.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:58:28  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:16  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a variable that is intended to be eval'ed in
?X: order to define/undefine a symbol. A consistency check is made
?X: regarding any previous value and a warning is issued if there
?X: is any discrepancy.
?X:
?X:
 To use it, say:
?X: val=<value>
?X: set d_variable
?X: eval $setvar
?X:
?MAKE:Setvar: Whoa
?MAKE: -pick add $@ %<
?LINT:define setvar
?S:setvar:
?S: This shell variable is used internally by Configure to set a value
?S: to a given symbol that is defined or not. A typical use is:
?S: val=<value computed>
?S:  set d_variable
?S:  eval $setvar
?S: That will print a message in case the $val value is not the same
?S: as the previous value of $d_variable.
?S:.
?V:setvar:val
?T:var was td tu
: function used to set '$1' to '$val'
setvar='var=$1; eval "was=\$$1"; td=$define; tu=$undef;
case "$val$was" in
$define$undef) . ./whoa; eval "$var=\$td";;
$undef$define) . ./whoa; eval "$var=\$tu";;
*) eval "$var=$val";;
esac'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Setvar.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: cc.U 1 2006-08-24 12:32:52Z rmanfredi $

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: cc.U,v $
?RCS: Revision 3.0.1.4  1995/05/12  12:06:47  ram
?RCS: patch54: may now abort Configure when cc does not work
?RCS:
?RCS: Revision 3.0.1.3  1995/01/11  15:20:11  ram
?RCS: patch45: changed gcc checking message to a more explicit one (WED)
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:04:29  ram
?RCS: patch36: detect gcc even when not called as 'gcc' (ADO)
?RCS: patch36: simplified gcc version checking (ADO)
?RCS: patch36: added ?F: line for metalint
 file checking
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:26:06  ram
?RCS: patch23: added support for gcc version (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:30  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:cc: Myread Oldconfig Checkcc test
?MAKE: -pick add $@ %<
?S:cc:
?S: This variable holds the name of a command to execute a C compiler which
?S: can resolve multiple global references that happen to have the same
?S: name.  Usual values are 'cc' and 'gcc'.
?S: Fervent ANSI compilers may be called 'c89'.  AIX has xlc.
?S:.
?F:!cc.cbu
?D:cc='cc'
: Determine the C compiler to be used
echo " "
case "$cc" in
") dflt=cc;;
*) dflt="$cc";;
esac
rp="Use which C compiler?"
. ./myread
cc="$ans"
```

```
: See whether they have no cc but they do have gcc
. ./trygcc
?X: Look for a hint-file generated 'call-back-unit'.  Now that the
?X: user has specified the compiler, we may need to set or change some
?X: other defaults.
if $test -f cc.cbu; then
   . ./cc.cbu
fi
. ./checkcc

Found
 in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/cc.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: nis.U,v 3.0.1.3 1997/02/28 16:17:38 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: nis.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  16:17:38  ram
?RCS: patch61: ensure suitable defaults for hostcat and friends
?RCS:
?RCS: Revision 3.0.1.2  1995/03/21  08:48:34  ram
?RCS: patch52: continued fix for NeXT NIS/NetInfo handling
?RCS:
?RCS: Revision 3.0.1.1  1995/02/15  14:16:23  ram
?RCS: patch51: now correctly handles NeXT using NIS rather than NetInfo
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:24  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:passcat
 groupcat hostcat: Myread Oldconfig test contains
?MAKE: -pick add $@ %<
?S:passcat:
?S: This variable contains a command that produces the text of the
?S: /etc/passwd file.  This is normally "cat /etc/passwd", but can be
?S: "ypcat passwd" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
```

```
?S:groupcat:
?S: This variable contains a command that produces the text of the
?S: /etc/group file.  This is normally "cat /etc/group", but can be
?S: "ypcat group" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
?S:hostcat:
?S: This variable contains a command that produces the text of the
?S: /etc/hosts file.  This is normally "cat /etc/hosts", but can be
?S: "ypcat hosts" when NIS is used.
?S: On some systems, such as os390, there may be no equivalent
?S: command, in which case this variable is unset.
?S:.
:
 see if we have to deal with yellow pages, now NIS.
?X: NeXT gives us some fun here, as always, by having both NIS (former YP)
?X: and NetInfo. But since it has both, it's ok to put the test inside the if.
?X: Contributed by Thomas Neumann <tom@smart.bo.open.de>.
if $test -d /usr/etc/yp || $test -d /etc/yp || $test -d /usr/lib/yp; then
@if passcat || groupcat
 case "$passcat" in
 nidump*) ;;
 *)
  case "$passcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the passwd file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) passcat='ypcat passwd'
@if groupcat
   echo "(Assuming /etc/group is also distributed.)"
   groupcat='ypcat group'
@end
   ;;
  *) passcat='cat /etc/passwd'
@if groupcat
   echo "(Assuming /etc/group is also local.)"
   groupcat='cat /etc/group'
@end
```

```
   ;;
  esac
  ;;
 esac
@end
@if hostcat
 case "$hostcat" in
 nidump*) ;;
 *)
  case
 "$hostcat" in
  *ypcat*) dflt=y;;
  ") if $contains '^\+' /etc/passwd >/dev/null 2>&1; then
    dflt=y
   else
    dflt=n
   fi;;
  *) dflt=n;;
  esac
  echo " "
  rp='Are you getting the hosts file via yellow pages?'
  . ./myread
  case "$ans" in
  y*) hostcat='ypcat hosts';;
  *) hostcat='cat /etc/hosts';;
  esac
  ;;
 esac
@end
fi
?X: Ensure suitable default -- Manoj Srivastava
case "$hostcat" in
") test -f /etc/hosts && hostcat='cat /etc/hosts';;
esac
case "$groupcat" in
") test -f /etc/group && groupcat='cat /etc/group';;
esac
case "$passcat" in
") test -f /etc/passwd && passcat='cat /etc/passwd';;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/nis.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sysman.U,v 3.0.1.2 1994/06/20 07:08:43 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
```

```
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sysman.U,v $
?RCS: Revision 3.0.1.2  1994/06/20  07:08:43  ram
?RCS: patch30: now explicitly states that /usr/man/man1 is the default
?RCS: patch30: added /usr/local/man/man1 to the search list
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:13:50  ram
?RCS: patch10: added support for /local/man/man1 (WAD)
?RCS: patch10: added temporary syspath variable to cut down on line length
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:55  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:sysman: test Loc Oldconfig
?MAKE: -pick add $@ %<
?S:sysman:
?S: This variable holds the place where the manual is located on this
?S: system. It is not the place where the user wants to put his manual
?S: pages. Rather it is the place where Configure may look to find manual
?S: for unix commands (section 1 of the manual usually). See mansrc.
?S:.
?T:syspath
: determine where manual pages are on this system
echo " "
case "$sysman" in
")
 syspath='/usr/share/man/man1 /usr/man/man1'
 syspath="$syspath /usr/man/mann /usr/man/manl /usr/man/local/man1"
 syspath="$syspath /usr/man/u_man/man1"
 syspath="$syspath /usr/catman/u_man/man1 /usr/man/l_man/man1"
 syspath="$syspath /usr/local/man/u_man/man1 /usr/local/man/l_man/man1"
 syspath="$syspath /usr/man/man.L /local/man/man1 /usr/local/man/man1"
 sysman=`./loc . /usr/man/man1 $syspath`
 ;;
esac
if $test -d "$sysman"; then
 echo "System manual is in $sysman." >&4
else
 echo "Could not find manual pages in source form."
 >&4
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/sysman.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libpth.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:08:49  ram
?RCS: patch61: new loclibpth variable
?RCS:
?RCS: Revision 3.0.1.5  1995/01/11  15:31:30  ram
?RCS: patch45: call ./mips instead of just mips (WED)
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:29:15  ram
?RCS: patch32: added /lib/pa1.1 for HP-UX specially tuned PA-RISC libs (ADO)
?RCS: patch32: fixed information message, making it clearer (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:03:54  ram
?RCS: patch30: added /usr/shlib to
 glibpth for shared-only libraries
?RCS:
?RCS: Revision 3.0.1.2  1994/05/13  15:26:57  ram
?RCS: patch27: fixed a typo (libpth -> glibpth)
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  15:07:53  ram
?RCS: patch23: now asks for library directories to be searched (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit initializes the path for C library lookup.
?X:
?MAKE:libpth glibpth xlibpth plibpth loclibpth: \
 usrinc incpath test cat Myread Oldconfig
?MAKE: -pick add $@ %<
?S:libpth:
?S: This variable holds the general path (space-separated) used to find
?S: libraries. It is intended to be used by other units.
```

```
?S:.
?S:glibpth:
?S: This variable holds the general path (space-separated) used to
?S: find libraries.  It may contain directories that do not exist on
?S: this platform, libpth is the cleaned-up version.
?S:.
?S:xlibpth:
?S: This variable holds extra path (space-separated) used to find
?S: libraries on this platform,
 for example CPU-specific libraries
?S: (on multi-CPU platforms) may be listed here.
?S:.
?S:loclibpth:
?S: This variable holds the paths (space-separated) used to find local
?S: libraries.  It is prepended to libpth, and is intended to be easily
?S: set from the command line.
?S:.
?S:plibpth:
?S: Holds the private path used by Configure to find out the libraries.
?S: Its value is prepend to libpth. This variable takes care of special
?S: machines, like the mips.  Usually, it should be empty.
?S:.
?T: xxx dlist
?LINT:use usrinc
?INIT:: change the next line if compiling for Xenix/286 on Xenix/386
?INIT:xlibpth='/usr/lib/386 /lib/386'
?INIT:: Possible local library directories to search.
?INIT:loclibpth="/usr/local/lib /opt/local/lib /usr/gnu/lib"
?INIT:loclibpth="$loclibpth /opt/gnu/lib /usr/GNU/lib /opt/GNU/lib"
?INIT:
?INIT:: general looking path for locating libraries
?INIT:glibpth="/lib /usr/lib $xlibpth"
?INIT:glibpth="$glibpth /usr/ccs/lib /usr/ucblib /usr/local/lib"
?X: /shlib
 is for Digital Unix 4.0
?X: /usr/shlib is for OSF/1 systems.
?INIT:test -f /usr/shlib/libc.so && glibpth="/usr/shlib $glibpth"
?INIT:test -f /shlib/libc.so     && glibpth="/shlib $glibpth"
?INIT:
?INIT:: Private path used by Configure to find libraries.  Its value
?INIT:: is prepended to libpth. This variable takes care of special
?INIT:: machines, like the mips.  Usually, it should be empty.
?INIT:plibpth="
?INIT:
: Set private lib path
case "$plibpth" in
") if ./mips; then
?X: on mips, we DO NOT want /lib, and we want $incpath/usr/lib
```

```
  plibpth="$incpath/usr/lib /usr/local/lib /usr/ccs/lib"
 fi;;
esac
case "$libpth" in
' ') dlist='';;
'') dlist="$loclibpth $plibpth $glibpth";;
*) dlist="$libpth";;
esac

: Now check and see which directories actually exist, avoiding duplicates
libpth=''
for xxx in $dlist
do
   if $test -d $xxx; then
  case " $libpth " in
  *" $xxx "*) ;;
  *) libpth="$libpth $xxx";;
  esac
   fi
done
$cat <<'EOM'

Some systems have incompatible or broken versions
 of libraries.  Among
the directories listed in the question below, please remove any you
know not to be holding relevant libraries, and add any that are needed.
Say "none" for none.

EOM
case "$libpth" in
'') dflt='none';;
*)
?X: strip leading space
 set X $libpth
 shift
 dflt=${1+"$@"}
 ;;
esac
rp="Directories to use for library searches?"
. ./myread
case "$ans" in
none) libpth=' ';;
*) libpth="$ans";;
esac

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libpth.U
```

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: yacc.U,v 3.0.1.1 1994/05/13 15:28:48 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: yacc.U,v $
?RCS: Revision 3.0.1.1  1994/05/13  15:28:48  ram
?RCS: patch27: added byacc as another alternative (ADO)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:10:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:yacc yaccflags: Guess Myread Oldconfig byacc bison cat test _exe
?MAKE: -pick add $@ %<
?S:yacc:
?S: This variable holds the name of the compiler compiler we
?S: want to use in the Makefile. It can be yacc, byacc, or bison -y.
?S:.
?S:yaccflags:
?S: This
 variable contains any additional yacc flags desired by the
?S: user.  It is up to the Makefile to use this.
?S:.
?T:comp
: determine compiler compiler
case "$yacc" in
")
 dflt=yacc;;
*)
 dflt="$yacc";;
esac
echo " "
comp='yacc'
if $test -f "$byacc$_exe"; then
 dflt="$byacc"
 comp="byacc or $comp"
fi
if $test -f "$bison$_exe"; then
 comp="$comp or bison -y"
fi
rp="Which compiler compiler ($comp) shall I use?"
```

```
. ./myread
yacc="$ans"
case "$yacc" in
*bis*)
 case "$yacc" in
 *-y*) ;;
 *)
  yacc="$yacc -y"
  echo "(Adding -y option to bison to get yacc-compatible behavior.)"
  ;;
 esac
 ;;
esac

@if yaccflags
: see if we need extra yacc flags
dflt="$yaccflags"
case "$dflt" in
") dflt=none;;
esac
$cat <<EOH

Your yacc program may need extra flags to normally process the parser sources.
Do NOT specify any -d or -v flags here, since those are explicitly known
by the various Makefiles. However, if your machine has strange/undocumented
options (like -Sr# on SCO to specify the
 maximum number of grammar rules), then
please add them here.  To use no flags, specify the word "none".

EOH
rp="Any additional yacc flags?"
. ./myread
case "$ans" in
none) yaccflags=";;
*) yaccflags="$ans";;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/yacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailList.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
```

```
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailList.U,v $
?RCS: Revision 3.0.1.1  1994/01/24  14:01:49  ram
?RCS: patch16: created
?RCS:
?RCS:
?X:
?X: This unit offers the user the option of subscribing to the mailing
?X: list. To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
?X: The address of the mailing list server must be set via a "list_request=..."
?X:
 entry in the .package file. This is usually done by running packinit and
?X: answering the proper questions.
?X:
?MAKE:MailList: cat mailer package Myread cf_name cf_email
?MAKE: -pick wipe $@ %<
?T:list_request list_sub list_unsub list_name
?X:
?X: The cf_name dependency is used through list_sub when the mailing list
?X: manager happens to be listserv, whereas cf_email is used whith majordomo
?X: or when the mailing list request address is scanned by a human. Since
?X: they do not appear within the unit itself, we need a lint hint.
?X:
?LINT:use cf_name cf_email
: offer to join the mailing list
list_request='<$list_request>'
list_sub="<$list_sub>"
list_unsub="<$list_unsub>"
list_name="<$list_name>"
$cat <<EOM

There is a mailing list for discussion about $package and related issues.
This is the preferred place to ask questions about the program and discuss
modifications and additions with the author and other users.  If you are able
to send mail to the Internet, you
 are encouraged to subscribe.  You need only
ever subscribe once, and you can unsubscribe automatically at any time in the
future.  If you have already subscribed and you wish to unsubscribe now, you
may do so by answering "unsubscribe".  Answer "subscribe" to subscribe to the
list.
```

```
EOM
rp="Subscribe to or unsubscribe from the $list_name mailing list?"
dflt=neither
. ./myread
case "$ans" in
[sS]*) $cat <<EOM

You will be sent a message from the list server to let you know when your
subscription has been successful and telling you how to submit articles and
how to unsubscribe again when necessary. You may also unsubscribe by running
this script again and asking it to do so for you.

EOM
 echo "Sending mail to subscribe you to the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To: $list_request

$list_sub
EOM
 ;;
[uU]*) echo "Sending mail to unsubscribe you from the $list_name list..." >&4
 $mailer $list_request <<EOM >/dev/null 2>&1
Precedence: junk
To:
 $list_request

$list_unsub
EOM
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/MailList.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Begin.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Begin.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  14:56:35  ram
```

```
?RCS: patch61: added Extractall dependency
?RCS:
?RCS: Revision 3.0.1.2  1995/01/30  14:25:08  ram
?RCS: patch49: avoid an empty rmlist: systems might choke on it (WED)
?RCS:
?RCS: Revision 3.0.1.1  1994/10/31  09:32:20  ram
?RCS: patch44: created
?RCS:
?X:
?X: This file comes after option processing had been done and after all
?X: the default values have been set up. It marks the beginning
 of questions.
?X: It is important that Options be listed *after* Myinit to ensure that the
?X: default initializations performed by Init and Myinit will not clobber
?X: any setting done on the command line via -D or -U.
?X:
?MAKE:Begin: Myinit Options package Extractall
?MAKE: -pick add $@ %<
: Eunice requires " " instead of "", can you believe it
echo " "
: Here we go...
echo "Beginning of configuration questions for $package."

?X: Make sure the rm below is given a non-empty list for some systems.
?X: This is run only when within the UU directory, hence we can safely
?X: attempt to rm a non-existent 'X' file...
trap 'echo " "; test -d ../UU && rm -rf X $rmlist; exit 1' 1 2 3 15
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Begin.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: installstyle.U,v 1.2 1999/07/13 14:56:06 doughera Exp $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: installstyle.U,v $
?RCS: Revision 1.2  1999/07/13 14:56:06  doughera
?RCS: Fix dependencies.  Add more comments.
?RCS:
?RCS: Revision 1.1  1999/07/12 17:30:41  doughera
?RCS: Initial revision
```

```
?RCS:
?RCS:
?MAKE:installstyle: prefix Myread
?MAKE: -pick add $@ %<
?X: Myread dependence is for dflt.
?S:installstyle:
?S: This variable describes the "style" of the perl installation.
?S: This is intended to be useful for tools that need to
?S: manipulate entire perl
 distributions.  Perl itself doesn't use
?S: this to find its libraries -- the library directories are
?S: stored directly in Config.pm.  Currently, there are only two
?S: styles:  "lib" and "lib/perl5".  The default library locations
?S: (e.g. privlib, sitelib) are either $prefix/lib or
?S: $prefix/lib/perl5.  The former is useful if $prefix is a
?S: directory dedicated to perl (e.g. /opt/perl), while the latter
?S: is useful if $prefix is shared by many packages, e.g. if
?S: $prefix=/usr/local.
?S:
?S: Unfortunately, while this "style" variable is used to set
?S: defaults for all three directory hierarchies (core, vendor, and
?S: site), there is no guarantee that the same style is actually
?S: appropriate for all those directories.  For example, $prefix
?S: might be /opt/perl, but $siteprefix might be /usr/local.
?S: (Perhaps, in retrospect, the "lib" style should never have been
?S: supported, but it did seem like a nice idea at the time.)
?S:
?S: The situation is even less clear for
 tools such as MakeMaker
?S: that can be used to install additional modules into
?S: non-standard places.  For example, if a user intends to install
?S: a module into a private directory (perhaps by setting PREFIX on
?S: the Makefile.PL command line), then there is no reason to
?S: assume that the Configure-time $installstyle setting will be
?S: relevant for that PREFIX.
?S:
?S: This may later be extended to include other information, so
?S: be careful with pattern-matching on the results.
?S:
?S: For compatibility with perl5.005 and earlier, the default
?S: setting is based on whether or not $prefix contains the string
?S: "perl".
?S:.
: determine installation style
: For now, try to deduce it from prefix unless it is already set.
: Reproduce behavior of 5.005 and earlier, maybe drop that in 5.7.
case "$installstyle" in
") case "$prefix" in
```

```
  *perl*) dflt='lib';;
  *) dflt='lib/perl5' ;;
 esac
 ;;
*) dflt="$installstyle" ;;
esac
: Probably not worth prompting for this since we prompt
 for all
: the directories individually, and the prompt would be too long and
: confusing anyway.
installstyle=$dflt
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/installstyle.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: prototype.U,v 3.0.1.3 1994/05/06 15:11:49 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: prototype.U,v $
?RCS: Revision 3.0.1.3  1994/05/06  15:11:49  ram
?RCS: patch23: ensure cc flags used when looking for prototype support
?RCS:
?RCS: Revision 3.0.1.2  1994/01/24  14:15:36  ram
?RCS: patch16: prototype handling macros now appear only when needed
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:03:12  ram
?RCS: patch6: defines were referring to non-existent VOID symbol
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:36  ram
?RCS: Baseline for dist
 3.0 netwide release.
?RCS:
?MAKE:prototype: Nothing
?S:prototype:
?S: This variable holds the eventual value of CAN_PROTOTYPE, which
?S: indicates the C compiler can handle function prototypes.
?S:.
: stub, never used
prototype=nothing
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/prototype.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: longsize.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: longsize.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  16:09:35  ram
?RCS: patch61: code moved to intsize.U
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:24:31  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:07  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: 'longsize' is now defined within intsize.U
?X:
?LINT: empty
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/longsize.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones used to build Configure and config_h.SH
in the Perl5 distribution.

metaconfig will first look in its standard locations (specified when you
installed dist). It will then recurse through the 'U' subdirectory
and find any additional "private" units. Private units override
standard ones supplied with metaconfig.

Files in this directory:

README
This file.

Glossary.patch
The standard dist units contain some strings that make pod2man complain. This patch silences those warnings. As new units are added and Configure is regenerated, this patch may need more and more 'fuzz' to be applied. It should be freshly regenerated every once in a while. See also mkgloss.pl

ln-all.pl
Re-generate the all/ folder

mkglossary
A script to regenerate Porting/Glossary. You have to manually edit the top of the script to point the location of your metaconfig units. It is called automatically by 'mksample'. See also mkgloss.pl

mkgloss.pl
A perl script that calls U/mkglossary from the perl source tree, sorts the list of symbols, and applies the patch mentioned in Glossary.patch. When called on its own, redirect the output to a temporary file, and compare that file to Porting/Glossary before applying.

mksample
A script to regenerate Porting/config.sh and Porting/config.H. It also calls mkglossary, if necessary.

Subdirectories:

The units and other related files have been broken up into the following directories.

a_dvisory/
These are units that have to go first in the generated config_h.SH. A word of explanation: Configure and config_h.SH are generated from 'Units' (the *.U files). Files indicate dependencies (using make(1)), and Configure is built to follow those dependencies. However, config_h.SH is simply built by putting all the units in alphabetical order and extracting the relevant lines. (This could be fixed, I suppose, but it wasn't trivial the one time I looked.) The a_dvisory/ directory, then, is a place to put units that need to be early in config_h.SH. (Most units are self-contained and ought to be able to go anywhere. However, some things, like byteorder, need to have the #defines from multiarch available.)

acl/
This is an old patch to begin to detect and use ACL (access control list) file protection schemes.

all/
A folder that conveniently holds symbolic links to all the modules that are used to build the current Configure and config_h.SH.

compline/
These are similar to the standard units, but I have modified them to have a more uniform compile command line, usually using the new Compile.U unit. (The ccflags.U unit is perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE, but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built and installed. I have submitted these for inclusion in the regular dist distribution. They have already been applied to the ../dist-3.0at70b directory.

ebcdic/
These are units that had to be specially modified to work under either EBCDIC or ASCII.

installdirs/
These are units to handle perl's installation directories and related issues.

modified/
These are modified versions of the standard units. Also included in this directory are new units that are clearly derived from existing units. I have submitted these for inclusion in the regular dist distribution.

nullified/
These are null units that replace units in the standard distribution. Typically they are there because some part of the perl source accidentally uses a symbol that metaconfig thinks means we want the corresponding unit.

perl/
These are specific to perl. Some are heavily derived from original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory should ordinarily be empty, but there may have been drift between the standard version of perl and the one associated with these units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U units to check for prototypes.

threads/
These are specific to threading perl.

typedefs/
These are standard units modified to use the modified Typedef.U unit to check for typedefs. (The modified Typdef.U includes a function to avoid unnecessary prompts if the typdef being searched for exists.)

Where appropriate, I submitted these units for inclusion into the regular dist distribution. However, since dist is no longer actively maintained, and the alternative is for *me* to actively maintain it, the units just
sit here.

Copyright Information:

Unless otherwise indicated, the files contained in this distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in this distribution:

You may distribute the files contained in this distribution under the terms of either

a) the "Artistic License" which comes with Perl, or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free Software Foundation; either version 1, or (at your option) any later version (see the file "Copying" that comes with the Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified
license as contained in dist-3.0-pl60 provides:

> 7. You may reuse parts of this Package in your own programs, provided
> that you explicitly state where you got them from, in the source code
> (and, left to your courtesy, in the documentation), duplicating
> all the associated copyright notices and disclaimers. Besides
> your changes, if any, must be clearly marked as such. Parts reused
> that way will no longer fall under this license if, and only if,
> the name of your program(s) have no immediate connection with the
> name of the Package itself or its associated programs. You may then
> apply whatever restrictions you wish on the reused parts or choose
> to place them in the Public Domain--this will apply only within the
> context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences
between these units and the standard versions, please
feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/README
No license file was found, but licenses were detected in source scan.

?RCS: $Id: Warn.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.

```
?RCS:
?RCS: $Log: Extract.U,v $
?X:
?X: This unit produces a shell script which can be run in order to emit
?X: an important warning to the user, which will be remembered and shown
?X: at the end of the Configure run as well.
?X:
?X: A typical use would be:
?X:
?X:  ./warn <<EOM
?X:  Problem with your C compiler: can't turn debugging on.
?X:  EOM
?X:
?X: or:
?X:
?X:  ./warn "Problem with your C compiler: can't turn debugging on."
?X:
?X: Which will both display to the user:
?X:
?X:  ***
 WARNING:
?X:  *** Problem with your C compiler: can't turn debugging on.
?X:  ***
?X:
?MAKE:Warn: startsh eunicefix
?MAKE: -pick add $@ %<
?F:./warn
: script used to emit important warnings
cat >warn <<EOS
$startsh
?X: Read the whole warning message from stdin into a temporary file
?X: when no argument was supplied.
if test \$# -gt 0; then
 echo "\$@" >msg
else
 cat >msg
fi
?X: Emit the warning, prefixing all lines with '*** '
echo "*** WARNING:" >&4
sed -e 's/^/*** /' <msg >&4
echo "*** " >&4
?X: Save the warning in the logs, which will be shown again at the end
cat msg >>config.msg
echo " " >>config.msg
rm -f msg
EOS
chmod +x warn
$eunicefix warn
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Warn.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: inc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: inc.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:inc incexp: Loc Oldconfig Getfile usrinc
?MAKE: -pick add $@ %<
?S:inc:
?S: This variable holds the name of the directory in which the user wants
?S: to put public header files for the package in question.  It is most
?S: often a local directory such as /usr/local/include.
?S:.
?S:incexp:
?S: This is the same as the inc variable, but is filename
 expaned
?S: at configuration time for convenient use in your makefiles.
?S:.
: determine where public header files go
case "$inc" in
")
 dflt=`./loc . "." /usr/local/include /usr/include/local $usrinc`
 ;;
*)  dflt="$inc"
 ;;
esac
fn=d~
rp='Where do you want to put the public header files?'
. ./getfile
inc="$ans"
incexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/inc.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: package.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: package.U,v $
?RCS: Revision 3.0.1.3  1994/10/29  16:27:21  ram
?RCS: patch36: beware of non-ascii character sets when translating case
?RCS:
?RCS: Revision 3.0.1.2  1993/11/10  17:37:02  ram
?RCS: patch14: skip definition of spackage if not otherwise used
?RCS:
?RCS: Revision 3.0.1.1  1993/09/13  16:11:10  ram
?RCS: patch10: added spackage, suitable for starting sentences
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:28  ram
?RCS: Baseline for dist 3.0
 netwide release.
?RCS:
?MAKE:package spackage: Nothing
?MAKE: -pick wipe $@ %<
?S:package:
?S: This variable contains the name of the package being constructed.
?S: It is primarily intended for the use of later Configure units.
?S:.
?S:spackage:
?S: This variable contains the name of the package being constructed,
?S: with the first letter uppercased, i.e. suitable for starting
?S: sentences.
?S:.
?X: dist-4 has defined PACKAGE: here, which clashes with perly.h
?X:  as package is a reserved keyword in perl
?T:first last
: set package name
package='<PACKAGENAME>'
@if spackage
first=`echo $package | sed -e 's/^\(.\).*/\1/'`
last=`echo $package | sed -e 's/^.\(.*\)/\1/'`
?X:
?X: So early in the Configure script, we don't have ./tr set up and can't
?X: include Tr in our dependency or that would create a cycle. Therefore,
```

```
?X: we have to somehow duplicate the work done in Tr. That's life.
?X:
case "`echo AbyZ | tr '[:lower:]' '[:upper:]' 2>/dev/null`"-"`echo AbyZ | tr '[:upper:]' '[:lower:]'
 2>/dev/null`" in
ABYZ-abyz) spackage=`echo $first | tr '[:lower:]' '[:upper:]'`$last;;
*) spackage=`echo $first | tr '[a-z]' '[A-Z]'`$last;;
esac
@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/package.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Setprefixvar.U,v 3.0 2006/04/01 17:25:29 hmbrand $
?RCS:
?RCS: Copyright (c) 2006-2006, H.Merijn Brand & Nicholas Clark
?RCS:
?RCS: This file is included with or a derivative work of a file included
?RCS: with the metaconfig program of Raphael Manfredi's "dist" distribution.
?RCS: In accordance with clause 7 of dist's modified Artistic License:
?RCS:
?RCS:   You may distribute under the terms of either the GNU General Public
?RCS:   License or the Artistic License, as specified in the README file.
?RCS:
?X:
?X: This unit sets up the scripts installprefix and setprefixvar, so code
?X: in other parts can be more simple and maintainable
?X:
?MAKE:Setprefixvar: Myread Getfile startsh eunicefix test \
 prefix prefixexp installprefix installprefixexp
?MAKE: -pick add $@ %<
?LINT:extern prefixvar
?X: metalint still sees "`\$${prefixvar}exp`" as variable :(
?T:prefixvarexp
?F:./setprefixvar
?F:./installprefix
: Perform
 the prefixexp/installprefixexp correction if necessary
cat <<EOS >installprefix
$startsh
EOS
cat <<'EOSC' >>installprefix
: Change installation prefix, if necessary.
if $test X"$prefix" != X"$installprefix"; then
   eval "install${prefixvar}=\`echo \$${prefixvar}exp | sed \"s#^\$prefixexp#\$installprefixexp#\"\`"
else
   eval "install${prefixvar}=\"\$${prefixvar}exp\""
fi
```

```
EOSC
chmod +x installprefix
$eunicefix installprefix

: Set variables such as privlib and privlibexp from the output of ./getfile
: performing the prefixexp/installprefixexp correction if necessary.
cat <<EOS >setprefixvar
$startsh
EOS
cat <<'EOSC' >>setprefixvar
eval "${prefixvar}=\"\$ans\""
eval "${prefixvar}exp=\"\$ansexp\""
. ./installprefix
EOSC
chmod +x setprefixvar
$eunicefix setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/Setprefixvar.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Chk_whoami.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Chk_whoami.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:46  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit makes sure we don't try to include whoami.h if uname() exists.
?X:
?MAKE:Chk_whoami: d_uname i_whoami
?MAKE: -pick add $@ %<
?LINT:change i_whoami
: weed out incompatibilities
case "$d_uname" in
 "$define") i_whoami="$undef" ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Chk_whoami.U

No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lns.U,v 3.0.1.1 1994/06/20 07:05:52 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: Original Author: Andy Dougherty <doughera@lafcol.lafayette.edu>
?RCS:
?RCS: $Log: lns.U,v $
?RCS: Revision 3.0.1.1  1994/06/20  07:05:52  ram
?RCS: patch30: created by ADO
?RCS:
?X:
?X: This unit checks whether symbolic links are really supported.
?X: We can't rely on d_symlink because that may be listed in the
?X: C library but unimplemented.
?X:
?MAKE:lns: ln rm touch
?MAKE: -pick add $@ %<
?S:lns:
?S: This variable holds the name of the command to make
?S: symbolic
 links (if they are supported).  It can be used
?S: in the Makefile. It is either 'ln -s' or 'ln'
?S:.
: determine whether symbolic links are supported
echo " "
$touch blurfl
if $ln -s blurfl sym > /dev/null 2>&1 ; then
 echo "Symbolic links are supported." >&4
 lns="$ln -s"
else
 echo "Symbolic links are NOT supported." >&4
 lns="$ln"
fi
$rm -f blurfl sym
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/lns.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
```

```
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libs.U,v $
?RCS: Revision 3.0.1.6  1997/02/28  16:09:11  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.5  1995/07/25  14:12:05  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.4  1994/10/29  16:24:22  ram
?RCS: patch36: removed old broken thislib/thatlib processing (ADO)
?RCS:
?RCS: Revision 3.0.1.3  1994/06/20  07:05:44  ram
?RCS: patch30: code cleanup with if/elif by ADO and RAM
?RCS: patch30: undone patch23 for libswanted default
 setting
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:08:45  ram
?RCS: patch23: now includes ordered default libswanted variable (ADO)
?RCS: patch23: major cleanup for library lookups (ADO)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/25  14:02:31  ram
?RCS: patch6: added default for libs
?RCS:
?RCS: Revision 3.0  1993/08/18  12:09:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libs libsfound libsfiles libsdirs libspath libscheck: \
 test cat Myread Oldconfig Loc libpth package xlibpth so _a \
 +usesocks sed +cc +ccflags +ldflags rm
?MAKE: -pick add $@ %<
?S:libs:
?S: This variable holds the additional libraries we want to use.
?S: It is up to the Makefile to deal with it.  The list can be empty.
?S:.
?S:libsfound:
?S: This variable holds the full pathnames of the libraries
?S: we found and accepted.
?S:.
?S:libsfiles:
?S: This variable holds the filenames aka basenames of the libraries
```

```
?S: we found and accepted.
?S:.
?S:libsdirs:
?S: This variable holds the directory
 names aka dirnames of the libraries
?S: we found and accepted, duplicates are removed.
?S:.
?S:libspath:
?S: This variable holds the directory names probed for libraries.
?S:.
?S:libscheck:
?S: This variable is intended to be set by hint files, if needed.
?S: It should contain shell code that will be eval'ed with $xxx holding
?S: some library file.  It may change $xxx if needed.
?S: For instance, on an Irix platform, you may make sure the right
?S: library file is used depending on the cc command line, so that the
?S: correct library is used depending on the selected ABI (for 32 and
?S: 64-bit compilations).
?S:
?S: Here is an example of code that could be found in a hint file on Irix
?S: when the selected compiler was for 32-bit -- that code is put in the
?S: cc.cbu call-back unit to be invoked AFTER the C compiler and its
?S: flags have been chosen:
?S:
?S:  libscheck='case "$xxx" in
?S:  *.a) /bin/ar p $xxx `/bin/ar t $xxx | sed q` >$$.o;
?S:   case "`/usr/bin/file $$.o`" in
?S:   *N32*)
 rm -f $$.o ;;
?S:   *) rm -f $$.o; xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  *) case "`/usr/bin/file $xxx`" in
?S:   *N32*) ;;
?S:   *) xxx=/no/n32$xxx ;;
?S:   esac ;;
?S:  esac'
?S:.
?D:libs="
?LINT:extern libswanted
?LINT:change libswanted
?INIT:: default library list
?INIT:libswanted="
?X: This order is chosen so that libraries  -lndir, -ldir, -lucb, -lbsd,
?X: -lBSD, -lPW, and -lx only get used if there are unresolved
?X: routines at link time.  Usually, these are backwards compatability
?X: libraries, and may not be as reliable as the standard c library.
?X:
?X: The -lsocket -linet -lnsl order has been reported to be necessary
```

```
?X: for at least one SVR4 implementation.
?X: -lc must proceed -lucb or -lbsd for most Solaris applications.
?X: -lc_s proceeds -lc so we pick up the shared library version, if
?X: it is available.
?X:
?X: The ordering of c, posix, and cposix is a guess and almost
?X: certainly wrong on about half of all systems.
?X:
?X: Set proper libswanted in your private
 Myinit.U if needed.
?X:
?X:: default ordered library list
?X:libswanted='net socket inet bind nsl nm sdbm gdbm ndbm dbm malloc dl'
?X:libswanted="$libswanted dld sun m c_s c posix cposix ndir dir ucb"
?X:libswanted="$libswanted bsd BSD PW x"
?X:
?INIT:: should be set by hint files if needed
?INIT:libscheck="
?T:xxx yyy thislib thisdir libstyle linkmsg
?F:lt.c lt
: Looking for optional libraries
echo " "
echo "Checking for optional libraries..." >&4
case "$libs" in
' '|'') dflt='';;
*) dflt="$libs";;
esac
case "$libswanted" in
'') libswanted='c_s';;
esac
?X: libsocks has nasty naming scheme.
?X: This does not work if somebody wants SOCKS 4.
case "$usesocks" in
"$define") libswanted="$libswanted socks5 socks5_sh" ;;
esac
?X: Used later for link checks
echo "extern char printf(); int main() { printf(); return 0; }" > lt.c
libsfound="
libsfiles="
libsdirs="
libspath="
for thisdir in $libpth $xlibpth; do
 test -d $thisdir && libspath="$libspath $thisdir"
done
for thislib in $libswanted;
 do
 for thisdir in $libspath; do
    xxx="
```

```
    if $test ! -f "$xxx" ; then
   xxx=`ls $thisdir/lib$thislib.$so.[0-9]* 2>/dev/null | $sed -n '1p'`
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib.$so
   $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=shared
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/lib${thislib}_s$_a
        $test -f "$xxx" && eval $libscheck
   $test -f "$xxx" && libstyle=static
   $test -f "$xxx" && thislib=${thislib}_s
    fi
    if test ! -f "$xxx"; then
   xxx=$thisdir/Slib$thislib$_a
        $test -f "$xxx" && eval $libscheck
   $test
 -f "$xxx" && libstyle=static
    fi
    if $test -f "$xxx"; then
?X:
?X: It is not sufficient to find a .so on the disk.  We must make sure
?X: that we can indeed supply the -lfoo line on the cc line to link against
?X: that library.  On Linux for instance, a versionned .so will not be
?X: implicitly linked against, whereas it will work fine on Solaris 2.6.
?X:  --RAM, 10/10/2003
?X:
   if $cc -o lt $ccflags $ldflags lt.c -l$thislib >/dev/null 2>&1;
   then
    linkmsg=""
   else
    linkmsg=" but I can't link against it"
   fi
   case "$libstyle" in
   shared) echo "Found -l$thislib (shared)$linkmsg." ;;
```

```
  static) echo "Found -l$thislib$linkmsg." ;;
  *)      echo "Found -l$thislib ($libstyle)$linkmsg." ;;
  esac
  case " $dflt " in
  *"-l$thislib "*) ;;
  *)
   case "$linkmsg" in
   ")
    dflt="$dflt -l$thislib"
    libsfound="$libsfound $xxx"
    yyy=`basename $xxx`
    libsfiles="$libsfiles $yyy"
    yyy=`echo $xxx|$sed -e "s%/$yyy\\$%%"`
    case " $libsdirs
 " in
    *" $yyy "*) ;;
    *) libsdirs="$libsdirs $yyy" ;;
    esac
      ;;
   esac
   ;;
  esac
  break
    fi
 done
 if $test ! -f "$xxx"; then
    echo "No -l$thislib."
 fi
done
set X $dflt
shift
dflt="$*"
case "$libs" in
") dflt="$dflt";;
*) dflt="$libs";;
esac
case "$dflt" in
' '|") dflt='none';;
esac
$rm -f lt.c lt

$cat <<EOM

In order to compile $package on your machine, a number of libraries
are usually needed.  Include any other special libraries here as well.
Say "none" for none.  The default list is almost always right.
EOM
```

```
echo " "
rp="Which libraries to use?"
. ./myread
case "$ans" in
none) libs=' ';;
*) libs="$ans";;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libs.U
No license file was found, but licenses were detected in source scan.

Perl5 Metaconfig Units

Copyright (c) 1996-1998, Andy Dougherty
Copyright (c) 1999-2011, H.Merijn Brand
All rights reserved.

These units are the ones I used to build Configure and config_h.SH
in the Perl5 distribution.

The Configure script and config_h.SH file in the Perl distribution are
generated by a program called metaconfig. To run metaconfig, you will
need the full dist 3.0 distribution, maintained by Raphael Manfredi.
As of this writing, the current version is dist3.0, patchlevel 70.
Dist version dist-3.0@70.tar.gz is available on CPAN (the Comprehensive
Perl Archive Network) as
<http://www.perl.com/perl/CPAN/authors/id/RAM/dist-3.0@70.tar.gz>.

Instructions:

1. Unpack the full perl5 sources. Execute the following command

```
chmod +w Configure config_h.SH Porting/Glossary Porting/config*
```

2. Unpack the archive containing this file in the perl5 source
directory. This will create a directory
'U' under the perl5
sources. That directory will contain the metaconfig units for perl5.
This will also create two files in the perl5 source tree:
MANIFEST.new and .package.

3. Apply any patches to perl in the perl_patches/ directory.
(This may well be empty.)

4. Obtain and install dist-3.0pl70.

4. Apply any patches to dist under the dist_patches subdirectory.

5. From your main perl5 source directory, run packinit to
regenerate the .package file. IMPORTANT: Change the name and
address of the maintainer to your own name and address. I don't
want bug reports intended for you coming to me.

6. From your main perl5 source directory, run

metalint (or mlint)

and repair every failure it reports.

7. From your main perl5 source directory, run

metaconfig -m (or mconfig -m)

8. Edit U/mkglossary and/or U/mkgloss.pl to point to your dist-3.0pl70
location. (See comments at the top.)

9. Run the Porting/mksample script to update the contents
of the Porting/
subdirectory, or run all parts by hand. (see README)

NB: this script used to be U/mksample replaced by Porting/mksample;
see Porting/pumpkin.pod instead for current documentation on its
use.

10. Let me know about any changes, corrections, or enhancements.

Things to watch out for:

1. Future support of better random number generators should probably
start with the randfunc.U unit included here. It's currently
broken, but well commented and probably a good place to start.

Descriptions:

The units and other related files have been broken up into the following
directories:

acl/
This is an old patch to begin to detect and use ACL (access
control list) file protection schemes.

compline/
These are similar to the standard units, but I have modified them
to have a more uniform compile command line, usually using the new
Compile.U unit. I have submitted these for inclusion into the

regular dist distribution. (The ccflags.U
unit is actually
perl-specific since it mentions -DDEBUGGING and -DPOSIX_SOURCE,
but that's the only place it is perl-specific.)

dist_patches/
These are patches to dist that must be applied before it is built
and installed. I have submitted these for inclusion in the
regular dist distribution.

modified/
These are modified versions of the standard units. Also included in
this directory are new units that are clearly derived from existing
units. I have submitted these for inclusion in the regular dist
distribution.

perl/
These are specific to perl. Some are heavily derived from
original dist units, and are marked as such. Others are original.

perl_patches/
These are patches to the perl source. This directory
should ordinarily be empty, but there may have been drift between
the standard version of perl and the one associated with these
units.

protos/
These are units modified to use the new Hasproto.U or Protochk.U
units to check for prototypes. I have submitted these for inclusion
into the regular dist distribution.

target/
This is the very, very beginning of cross-compiler support.
It doesn't work yet, and many standard units will need
modification.

typedefs/
These are standard units modified to use the modified Typedef.U
unit to check for typedefs. (The modified Typdef.U includes a
function to avoid unnecessary prompts if the typdef being searched
for exists.) I have submitted these for inclusion into the
regular dist distribution.

threads/
These are specific to threading perl.

Copyright Information:

Unless otherwise indicated, the files contained in this
distribution are:

Copyright (c) 1996-1998, Andy Dougherty

The following licensing terms apply to all files contained in
this distribution:

You may distribute the files contained in this distribution
under the terms of either

a) the "Artistic License" which comes with Perl,
or

b) the "Artistic License" which comes with dist, or

c) the GNU General Public License as published by the Free
Software Foundation; either version 1, or (at your option) any
later version (see the file "Copying" that comes with the
Perl distribution).

Which one to use is your choice.

The units in the "modified" directory have been derived from units
associated with the metaconfig program of Raphael Manfredi's "dist"
distribution. These units list Raphael Manfredi as the Copyright holder.
dist is distributed under a modified version of the Perl Artistic License.
Clause 7 of this modified license as contained in dist-3.0-pl60 provides:

7. You may reuse parts of this Package in your own programs, provided
that you explicitly state where you got them from, in the source code
(and, left to your courtesy, in the documentation), duplicating
all the associated copyright notices and disclaimers. Besides
your changes, if any, must be clearly marked
as such. Parts reused
that way will no longer fall under this license if, and only if,
the name of your program(s) have no immediate connection with the
name of the Package itself or its associated programs. You may then
apply whatever restrictions you wish on the reused parts or choose
to place them in the Public Domain--this will apply only within the
context of your package.

In accordance with this clause, the versions of these units
contained here are made available under the same terms as the
rest of the units.

If you have any questions about the use of these units or about
the differences between these units and the standard versions, please

feel free to ask.

Andy Dougherty doughera@lafayette.edu
Dept. of Physics
Lafayette College
Easton, PA 18042-1782

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/README.dist
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Whoa.U,v $
?RCS: Revision 3.0.1.2  1997/02/28  15:21:21  ram
?RCS: patch61: whoa script now starts with leading "startsh"
?RCS:
?RCS: Revision 3.0.1.1  1994/10/29  16:02:01  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:19  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a bit of shell code that must be dotted in in order
?X: to warn the user in case a change into a variable is noticed.
?X:
?X: To use this
 unit, $was must hold the old value that has changed. Upon
?X: exit, the two variables $td and $tu are set to the correct value for
?X: respectively defining or undefining a variable. For instance, if $vas was
?X: $undef, but now $var is $define, after calling . whoa, you should use
?X: eval "$var=\$tu" to finally set $var to the correct value. See unit Inlibc.
?X:
?MAKE:Whoa: Myread startsh hint
?MAKE: -pick add $@ %<
?F:./whoa
?T:var was
?LINT:change td tu
: set up the script used to warn in case of inconsistency
```

```
cat <<EOS >whoa
$startsh
EOS
cat <<'EOSC' >>whoa
dflt=y
echo " "
echo "*** WHOA THERE!!! ***" >&4
echo "    The $hint value for \$$var on this machine was \"$was\"!" >&4
rp="    Keep the $hint value?"
. ./myread
case "$ans" in
y) td=$was; tu=$was;;
esac
EOSC
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Whoa.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Inlibc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Inlibc.U,v $
?RCS: Revision 3.0.1.1  1994/10/29  15:55:08  ram
?RCS: patch36: call ./whoa explicitly instead of relying on PATH
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:03  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit checks for the definition of a given function.
?X:
?X: To use it, say:
?X: set function d_func
?X: eval $inlibc
?X:
?MAKE:Inlibc: Csym Whoa Oldconfig
?MAKE: -pick add $@ %<
?LINT:define inlibc
?V:inlibc
?S:inlibc:
```

```
?S: This
 shell variable is used internally by Configure to check
?S: wether a given function is defined or not. A typical use is:
?S:  set function d_func
?S:  eval $inlibc
?S: That will print a message, saying wether function was found or
?S: not and set d_func accordingly.
?S:.
?T:was tx sym tres td tu var
: define an is-in-libc? function
inlibc='echo " "; td=$define; tu=$undef;
sym=$1; var=$2; eval "was=\$$2";
tx=yes;
case "$reuseval$was" in
true) ;;
true*) tx=no;;
esac;
case "$tx" in
yes)
 set $sym tres -f;
 eval $csym;
 case "$tres" in
 true)
  echo "$sym() found." >&4;
  case "$was" in $undef) . ./whoa; esac; eval "$var=\$td";;
 *)
  echo "$sym() NOT found." >&4;
  case "$was" in $define) . ./whoa; esac; eval "$var=\$tu";;
 esac;;
*)
 case "$was" in
 $define) echo "$sym() found." >&4;;
 *) echo "$sym() NOT found." >&4;;
 esac;;
esac'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Inlibc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Rcs.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
```

```
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Rcs.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:15  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This is a unit that helps people who write SH scripts and keep them under
?X: RCS, but don't think to protect the $Log and other $Id keywords from
?X: variable substitution (or people like me who do not like to).
?X:
?MAKE:Author Date Header Id Locker Log RCSfile Revision Source State: Oldconfig
?MAKE: -pick weed $@ %<
?LINT:describe Author
 Date Header Id Locker Log RCSfile Revision Source State
: preserve RCS keywords in files with variable substitution, grrr
?Author:Author='$Author'
?Date:Date='$Date'
?Header:Header='$Header'
?Id:Id='$Id'
?$Locker'
?Log:Log='$Log'
?RCSfile:RCSfile='$RCSfile'
?Revision:Revision='$Revision'
?Source:Source='$Source'
?State:State='$State'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Rcs.U
No license file was found, but licenses were detected in source scan.

?RCS: You may distribute under the terms of either the GNU General Public

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/usethreads.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endpwent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_class.U
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/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_scalbn.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_erfc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getitimer.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnbyad.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_fp.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unordered.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclassl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log1p.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_remquo.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getnbynm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getgrnam_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sendmsg.U
*

/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setlocale_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getnameinfo.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getenv_thread.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strerror_l.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endpwent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endgrent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_localtime_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isnan.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_libutil.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strlcpy.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strtoll.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_endgrent.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Cross.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dlsrc.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getnetbyname_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/time_size.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endprotoent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_readdir_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_j0.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usemultiplicity.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Sysroot.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usesocks.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_tmpnam_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fegetround.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getspnam_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/longdblfio.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_gethostbyname_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/acl/d_eaccess.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinfl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strnlen.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_prot.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hypot.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usebacktrace.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/uselfs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_getmntent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Extensions.U
*
/perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_isinf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ftello.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_llrint.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fdclose.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_sitecustomize.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_log2.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_strftime.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_sysvfs.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_ctime_r.U

* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_endhostent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getlogin_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/a_dvisory/quadtype.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_lgamma.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_unsetenv.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_hasmntopt.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_ttyname_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_setgrent.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fmax.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/typedefs/uidf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ualarm.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_srandom_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_timefuncs64.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_rint.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_ieeefp.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_socks.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_tgamma.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/usemorebits.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_memmem.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_getprotobynumber_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_strerror_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/perlxvf.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/i_langinfo.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/dtraceobject.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_mkstemps.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fcntl_can_lock.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_fpclassify.U
*
 /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_ilogbl.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_setpwent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/threads/d_sethostent_r.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/i_netdb.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/mantbits.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_statfs_s.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/d_getprotby.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_truncl.U
No license file was found, but licenses were detected in source scan.

?RCS: Id
?RCS:
?RCS: Copyright (c) 2000, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root

```
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:versionONLY: cat Myread Setvar Devel
?MAKE: -pick add $@ %<
?LINT:set versionONLY
?Y:TOP
?S:versionONLY:
?S: If set, this symbol indicates that only the version-specific
?S: components of a perl installation should be installed.
?S: This may be useful for making a test installation of a new
?S: version without disturbing the existing installation.
?S: Setting versionONLY is equivalent to setting installperl's -v option.
?S: In particular, the non-versioned scripts and programs such as
?S: a2p, c2ph, h2xs, pod2*, and perldoc
 are not installed
?S: (see INSTALL for a more complete list).  Nor are the man
?S: pages installed.
?S: Usually, this is undef.
?S:.
?LINT:extern inc_version_list
?LINT:change inc_version_list
?LINT:extern inc_version_list_init
?LINT:change inc_version_list_init
?LINT:extern version
: determine whether to use a version number suffix for installed binaries
echo " "
$cat <<EOM
Do you want to use a version number suffix for installed binaries? This
will install 'perl$version' instead of 'perl', and likewise for other
binaries like 'perldoc' and 'cpan'. This allows many versions of perl
to be installed side-by-side. Unless you are a developer, you probably
do *not* want to do this.
EOM
case "$versionONLY" in
"$define"|[Yy]*|true) dflt='y' ;;
*) dflt='n';
esac
rp="Do you want to use a version number suffix for installed binaries?"
. ./myread
case "$ans" in
[yY]*) val="$define";;
*) val="$undef" ;;
esac
set versionONLY
eval $setvar

case "$versionONLY" in
"$define") inc_version_list="
```

```
        inc_version_list_init=0
       ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/versiononly.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Finish.U,v $
?RCS: Revision 3.0.1.6  1995/02/15  14:09:30  ram
?RCS: patch51: now clearer about how to edit config.sh at the prompt (WED)
?RCS:
?RCS: Revision 3.0.1.5  1994/10/29  15:53:14  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  14:19:37  ram
?RCS: patch23: added blank lines around 'End of Configure'
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:46:09  ram
?RCS: patch12: replaced Config_h by Magic_h in the dependency line
?RCS:
?RCS:
 Revision 3.0.1.2  1993/09/13  15:45:26  ram
?RCS: patch10: fixed shell evaluation w/o shell escape while in silent mode
?RCS:
?RCS: Revision 3.0.1.1  1993/08/30  08:55:59  ram
?RCS: patch8: prevents myread from blocking on empty answers, exceptionally
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:55  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit is the very last one in the Configure script.  It runs all the
?X: SH files, which among other things produce config.h and (usually) Makefile.
?X: It offers to do a make depend if the Makefile contains that target.
?X:
?MAKE:Finish: Chk_MANI Extract Myread Oldsym Magic_h cat rm contains \
 test package make
```

```
?MAKE: -pick add $@ %<
?F:!config.sh
?T:pwd
: Finish up by extracting the .SH files
case "$alldone" in
exit)
?X: They supplied the -E switch
 echo "Stopping at your request, leaving temporary files around."
 exit 0
 ;;
cont)
 ;;
")
 dflt="
 nostick=true
 $cat <<EOM

If you'd like to make any changes to the config.sh
 file before I begin
to configure things, do it as a shell escape now (e.g. !vi config.sh).

EOM
 rp="Press return or use a shell escape to edit config.sh:"
 . UU/myread
 nostick="
 case "$ans" in
 ") ;;
 *) : in case they cannot read
  sh 1>&4 -c "$ans";;
 esac
 ;;
esac

: if this fails, just run all the .SH files by hand
. ./config.sh

?X:
?X: Turn silent mode off from now on (we want a verbose file extraction).
?X: This means we have to explicitly test for '$silent' from now on to
?X: strip off any verbose messages.
?X:
echo " "
exec 1>&4
pwd=`pwd`
. ./UU/extract
cd "$pwd"

if $contains '^depend:' [Mm]akefile >/dev/null 2>&1; then
```

```
 dflt=y
 case "$silent" in
 true) ;;
 *)
  $cat <<EOM

Now you need to generate make dependencies by running "$make depend".
You might prefer to run it in background: "$make depend > makedepend.out &"
It can take a while, so you might not want to run it right now.

EOM
  ;;
 esac
 rp="Run $make depend now?"
 . UU/myread
 case "$ans" in
 y*)
  $make depend
 && echo "Now you must run '$make'."
  ;;
 *)
  echo "You must run '$make depend' then '$make'."
  ;;
 esac
elif test -f [Mm]akefile; then
 echo " "
 echo "Now you must run a $make."
else
 echo "Configure done."
fi

if $test -f Policy.sh; then
   $cat <<EOM

If you compile $package on a different machine or from a different object
directory, copy the Policy.sh file from this object directory to the
new one before you run Configure -- this will help you with most of
the policy defaults.

EOM
fi
if $test -f UU/config.msg; then
   echo "Hmm.  I also noted the following information while running:"
   echo " "
   $cat UU/config.msg >&4
fi
?X:
?X: kit*isdone files are left over by shell archives built using the makedist
```

```
?X: script which comes from dist, while ark*isdone files are left over by
?X: the cshar archive maker.
?X:
$rm -f kit*isdone ark*isdone
$rm -rf UU

: End of Configure
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Finish.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libyacc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
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?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libyacc.U,v $
?RCS: Revision 3.0.1.4  1997/02/28  16:09:19  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.3  1994/05/13  15:27:12  ram
?RCS: patch27: added byacc case (ADO)
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:09:01  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:49  ram
?RCS: patch16: un-obsoleted this unit for smooth yacc compilations
?RCS:
?RCS:
 Revision 3.0  1993/08/18  12:09:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libyacc: Loc yacc libpth _a
?MAKE: -pick add $@ %<
?S:libyacc:
?S: This variable contains the argument to pass to the loader in order
?S: to get the yacc library routines.  If there is no yacc or yacc
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -ly
```

```
echo " "
case "$yacc" in
*byacc*)
 echo "You are using byacc, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*yacc)
 xxx=`./loc liby$_a x $libpth`
 case "$xxx" in
 x)
  echo "No yacc library found." >&4
  libyacc=''
  ;;
 *)
  echo "yacc library found in $xxx." >&4
  libyacc="$xxx"
  ;;
 esac
 ;;
*bison*)
 echo "You are using bison, so I won't look for a yacc library." >&4
 libyacc=''
 ;;
*)
echo "You don't seem to have yacc, so I won't look for the yacc library." >&4
 libyacc=''
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libyacc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: lintlib.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: lintlib.U,v $
?RCS: Revision 3.0  1993/08/18  12:09:05  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:lintlib lintlibexp: Getfile Loc Oldconfig
```

```
?MAKE: -pick add $@ %<
?S:lintlib:
?S: This variable holds the name of the directory in which the user wants
?S: to put public lint-library files for the package in question.  It is
?S: most often a local directory such as /usr/local/lib/lint. Programs using
?S: this variable must be prepared to
 deal with ~name expansion.
?S:.
?S:lintlibexp:
?S: This variable is the same as the lintlib variable, but is filename
?S: expanded at configuration time, for convenient use in your makefiles.
?S:.
: determine where public lint libraries go
case "$lintlib" in
") dflt=`./loc . "." /usr/local/lib/lint /usr/lib/lint /usr/lib`;;
*) dflt="$lintlib" ;;
esac
echo " "
fn=d~
rp='Where do you want to put the public lint libraries?'
. ./getfile
lintlib="$ans"
lintlibexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/lintlib.U
No license file was found, but licenses were detected in source scan.

```
?RCS:     c) the GNU General Public License as published by the Free
?RCS:     Software Foundation; either version 1, or (at your option) any
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/d_builtin_overflow.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Extractall.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Extractall.U,v $
?RCS: Revision 3.0.1.1  1997/02/28  15:00:43  ram
?RCS: patch61: created
```

```
?RCS:
?X:
?X: If extraction has been requested, load the configuration file, perform
?X: the extraction and exit.
?X:
?X: This unit was originally a part of Options.U. It had to be removed from
?X: it to prevent a dependency cycle: Extract -> src -> Options -> Extract
?X: The Begin.U unit now requires us before beginning to do anything
?X: interesting, to ensure
 proper semantics. -- RAM, 15/03/96
?X:
?MAKE:Extractall: Extract Options
?MAKE: -pick wipe $@ %<
: extract files and exit if asked to do so
case "$extractsh" in
true)
?X: Undo the forced silent=true when -S was supplied, by probing realsilent
?X: which was set iff -s was also given. See Options.U for details.
 case "$realsilent" in
 true) ;;
 *) exec 1>&4;;
 esac
 case "$config_sh" in
 ") config_sh='config.sh';;
 esac
 echo " "
 echo "Fetching answers from $config_sh..."
 cd ..
 . $config_sh
?X: extract has to be run from the top directory, not within UU.
 . UU/optdef.sh
 echo " "
?X: extract has to be run from the top directory, not within UU.
 . UU/extract
 rm -rf UU
 echo "Extraction done."
 exit 0
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Extractall.U
No license file was found, but licenses were detected in source scan.

```
# Yes, you may rip this off to use in other distribution packages. This
# script belongs to the public domain and cannot be copyrighted.
#
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Head.U
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Head.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:sitehtml1dir sitehtml1direxp installsitehtml1dir: Getfile \
 Setprefixvar prefix siteprefix html1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitehtml1dir=''
?S:sitehtml1dir:
?S: This variable contains the name of the directory in which site-specific
?S: html source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:sitehtml1direxp=''
?S:sitehtml1direxp:
?S: This variable is the same as the sitehtml1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsitehtml1dir=''
?S:installsitehtml1dir:
?S: This variable is really the same as sitehtml1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: html1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsitehtml1dir
?LINT:set sitehtml1dir
?LINT:set sitehtml1direxp
```

```
: determine where add-on html pages go
: There is no standard location, so try to copy the previously-selected
: directory structure for the core html pages.
case "$sitehtml1dir" in
")
   dflt=`echo "$html1dir" | $sed "s#^$prefix#$siteprefix#"` ;;
*)     dflt=$sitehtml1dir ;;
esac
case "$dflt" in
"|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname where the site-specific html pages should be installed?'
. ./getfile
prefixvar=sitehtml1dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitehtml1dir.U
No license file was found, but licenses were detected in source scan.

```
/*
* This file was produced by running the config_h.SH script, which
* gets its values from $CONFIG_SH, which is generally produced by
* running Configure.
*
* Feel free to modify any of this as the need arises.  Note, however,
* that running config_h.SH again will wipe out any changes you've made.
* For a more permanent change edit $CONFIG_SH and rerun config_h.SH.
*
* \$Id: Config_h.U 1 2006-08-24 12:32:52Z rmanfredi $
*/
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Config_h.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Typedef.U,v $
```

```
?RCS: Revision 3.0.1.3  1995/07/25  13:42:07  ram
?RCS: patch56: added backslash escapes within evals to prevent space problems
?RCS:
?RCS: Revision 3.0.1.2  1994/10/29  16:01:16  ram
?RCS: patch36: don't clobber visible 'val' variable, use 'varval' instead
?RCS:
?RCS: Revision 3.0.1.1  1994/08/29  16:05:14  ram
?RCS: patch32: created
?RCS:
?X:
?X: This unit checks for the definition of a given typedef.
?X:
?X: To use it, say:
?X: set typedef val_t default [includes]
?X: eval $typedef
?X:
?MAKE:Typedef:
 cppstdin cppminus cppflags rm contains Oldconfig
?MAKE: -pick add $@ %<
?F:!temp.c
?LINT:define typedef
?V:typedef
?S:typedef:
?S: This shell variable is used internally by Configure to check
?S: wether a given typedef is defined or not. A typical use is:
?S:  set typedef val_t default [includes]
?S:  eval $typedef
?S: That will return val_t set to default if the typedef was not found,
?S: to typedef otherwise. If no includes are specified, look in sys/types.h.
?S:.
?T:type var def inclist varval inc
: define an is-a-typedef? function
typedef='type=$1; var=$2; def=$3; shift; shift; shift; inclist=$@;
case "$inclist" in
"") inclist="sys/types.h";;
esac;
eval "varval=\$$var";
case "$varval" in
"")
 $rm -f temp.c;
 for inc in $inclist; do
  echo "#include <$inc>" >>temp.c;
 done;
 $cppstdin $cppflags $cppminus < temp.c >temp.E 2>/dev/null;
 if $contains $type temp.E >/dev/null 2>&1; then
  eval "$var=\$type";
 else
  eval "$var=\$def";
```

```
 fi;
 $rm -f temp.?;;
*) eval
 "$var=\$varval";;
esac'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Typedef.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X:
 This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Begin Myread Configdir contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
case "$user" in
```

```
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a command.  Many of the questions will have
 default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Everytime there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer will remain unchanged
and you will be prompted
 again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
was already a config.sh file). Type 'Configure -h' for a list of options.
```

```
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in C programs.  You may edit
  any of these
 files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Instruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libflex.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
```

```
?RCS: $Log: libflex.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:57:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS:
?RCS: Revision 3.0.1.2  1994/05/06  15:07:02  ram
?RCS: patch23: now uses full library path instead of -l notation
?RCS:
?RCS: Revision 3.0.1.1  1994/01/24  14:13:25  ram
?RCS: patch16: un-obsoleted this unit to allow smooth lex/flex compilations
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:59  ram
?RCS: Baseline for dist 3.0 netwide
 release.
?RCS:
?MAKE:libflex: Loc lex libpth _a
?MAKE: -pick add $@ %<
?S:libflex:
?S: This variable contains the argument to pass to the loader in order
?S: to get the flex/lex library routines.  If there is no flex or flex
?S: library, it is null.
?S:.
?T:xxx
: see if we should include -lfl
echo " "
case "$lex" in
*flex)
 xxx=`./loc libfl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No flex library found." >&4
  libflex=''
  ;;
 *)
  echo "flex library found in $xxx." >&4
  libflex="$xxx"
  ;;
 esac
 ;;
*lex)
 xxx=`./loc libl$_a x $libpth`
 case "$xxx" in
 x)
  echo "No lex library found." >&4
  libflex=''
  ;;
 *)
  echo "lex library found in $xxx." >&4
  libflex="$xxx"
```

```
  ;;
 esac
 ;;
*)
echo "You don't seem to have lex or flex, so I won't look for libraries." >&4
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/libflex.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Nothing.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Nothing.U,v $
?RCS: Revision 3.0  1993/08/18  12:05:09  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: The purpose of this file is to supply an empty target for the private
?X: Makefile built by metaconfig to order the units.
?X:
?MAKE:Nothing: Head
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Nothing.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: vendorhtml3dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999, Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml3dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
```

```
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml3dir vendorhtml3direxp installvendorhtml3dir: html3dir Getfile \
 Oldconfig Setprefixvar Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml3dir:
?S: This variable contains the name of the directory for html
?S: library pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing
 in this directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages for modules and extensions in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml3direxp:
?S: This variable is the ~name expanded version of vendorhtml3dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml3dir="
?S:installvendorhtml3dir:
?S: This variable is really the same as vendorhtml3direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml3dir
: Set the vendorhtml3dir variables
case "$vendorprefix" in
") vendorhtml3dir="
 vendorhtml3direxp="
 ;;
*) : determine where vendor-supplied module html pages go.
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default
 suggestions would be welcome.
 case "$vendorhtml3dir" in
 ") dflt=`echo "$html3dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml3dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
```

```
 vendorhtml3dir="$ans"
 vendorhtml3direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml3dir" = "X" && vendorhtml3dir=' '
prefixvar=vendorhtml3dir
. ./installprefix
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorhtml3dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Filexp.U,v $
?RCS: Revision 3.0.1.2  1994/10/29  15:52:53  ram
?RCS: patch36: added ?F: line for metalint file checking
?RCS: patch36: added HOME to the ?T: line since metalint now checks ${HOME}
?RCS:
?RCS: Revision 3.0.1.1  1994/05/06  14:03:00  ram
?RCS: patch23: made sure error status from csh is propagated (WED)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:04:53  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit produces a shell script which will expand filenames beginning
?X:
 with tildes.  The script is deleted at the end of Configure.
?X:
?MAKE:Filexp: startsh sed test expr eunicefix
?MAKE: -pick add $@ %<
?F:./filexp
?T:HOME LOGDIR dir me name failed
: set up shell script to do ~ expansion
cat >filexp <<EOSS
$startsh
: expand filename
?X:
```

```
?X: The case entries below escape the ~ as some shells have shown expansion
?X: of the ~ during here-doc processing.
?X:
case "\$1" in
\~/*|\~)
 echo \$1 | $sed "s|~|\${HOME-\$LOGDIR}|"
 ;;
\~*)
 if $test -f /bin/csh; then
  /bin/csh -f -c "glob \$1"
  failed=\$?
  echo ""
  exit \$failed
 else
  name=\`$expr x\$1 : '..\([^/]*\)'\`
  dir=\`$sed -n -e "/^\${name}:/{s/^[^:]*:[^:]*:[^:]*:[^:]*:[^:]*:\([^:]*\).*'"\$'"/\1/" -e p -e q -e '}' </etc/passwd\`
  if $test ! -d "\$dir"; then
   me=\`basename \$0\`
   echo "\$me: can't locate home directory for: \$name" >&2
   exit 1
  fi
  case "\$1" in
  */*)
   echo \$dir/\`$expr x\$1 : '..[^/]*/\(.*\)'\`
   ;;
  *)
   echo \$dir
   ;;
  esac
 fi
 ;;
*)
 echo \$1
 ;;
esac
EOSS
chmod
 +x filexp
$eunicefix filexp
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Filexp.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: kernel.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
```

```
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: kernel.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:54  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:kernel: Getfile test
?MAKE: -pick add $@ %<
?S:kernel:
?S: This variable becomes the (fully rooted) path name of the kernel.
?S:.
: find the name of the kernel.
echo " "
case "$kernel" in
")
 if $test -r /unix; then
  dflt=/unix
 elif $test -r /vmunix; then
  dflt=/vmunix
 elif $test -r /xenix; then
  dflt=/xenix
 elif $test -r /mach; then
  dflt=/mach
 elif
 $test -r /dgux; then
  dflt=/dgux
 elif $test -r /hp-ux; then
  dflt=/hp-ux
 elif $test -r /syst; then
  dflt=/syst
 elif $test -r /arix; then
  dflt=/arix
 elif $test -r /irix; then
  dflt=/arix
 else
  dflt='unknown'
  set X /*x
  shift
  case $# in
  1)
   if $test -r "$1"; then
    dflt="$1"
   fi
   ;;
```

```
  esac
 fi
 ;;
*)
 dflt="$kernel"
 ;;
esac
fn=f
rp='What is the name of your kernel?'
. ./getfile
kernel="$ans"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/kernel.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: html3dir.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: html3dir.U,v $
?RCS:
?MAKE:html3dir html3direxp installhtml3dir: cat sed Loc Myread \
 spackage test Getfile Setprefixvar Prefixit Prefixup html1dir
?MAKE: -pick add $@ %<
?Y:TOP
?D:html3dir=''
?S:html3dir:
?S: This variable contains the name of the directory in which html
?S: source pages are to be put.  This directory is for pages
?S: that describe libraries or modules.  It is intended to
?S: correspond roughly to section 3 of the Unix manuals.
?S:.
?D:html3direxp=''
?S:html3direxp:
?S: This variable
 is the same as the html3dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installhtml3dir=''
?S:installhtml3dir:
?S: This variable is really the same as html3direxp, unless you are
```

```
?S: using a different installprefix.  For extra portability, you
?S: should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set html3direxp
?LINT:set installhtml3dir
: determine where html pages for libraries and modules go
set html3dir html3dir none
eval $prefixit
$cat <<EOM

If you wish to install html files for modules associated with $spackage,
indicate the appropriate directory here.  To skip installing html files,
answer "none".
EOM
: There is no obvious default.  If they have specified html1dir, then
: try to key off that, possibly changing .../html1 into .../html3.
case "$html3dir" in
") html3dir=`echo "$html1dir" | $sed 's/1$/3$/'` ;;
*) dflt=$html3dir ;;
esac
fn=dn+~
rp="Directory for the $spackage module
 html pages?"
. ./getfile
prefixvar=html3dir
. ./setprefixvar
: Use ' ' for none so value is preserved next time through Configure
$test X"$html3dir" = "X" && html3dir=' '

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/html3dir.U
No license file was found, but licenses were detected in source scan.

?RCS: $Id: siteprefix.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: siteprefix.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
```

```
?MAKE:siteprefix siteprefixexp +oldsiteprefix: Getfile Loc Oldconfig cat package prefix
?MAKE: -pick add $@ %<
?S:siteprefix:
?S: This variable holds the full absolute path of the directory below
?S: which the user will install add-on packages.
?S: See INSTALL for usage and examples.
?S:.
?S:siteprefixexp:
?S: This variable holds the full absolute path of the
 directory below
?S: which the user will install add-on packages.  Derived from siteprefix.
?S:.
?S:oldsiteprefix:
?S: This variable is set non-null if the siteprefix was previously defined
?S: and gets set to a new value. Used internally by Configure only.
?S:.
: Set the siteprefix variables
$cat <<EOM

After $package is installed, you may wish to install various
add-on modules and utilities.  Typically, these add-ons will
be installed under $prefix with the rest
of this package.  However, you may wish to install such add-ons
elsewhere under a different prefix.

If you do not wish to put everything under a single prefix, that's
ok.  You will be prompted for the individual locations; this siteprefix
is only used to suggest the defaults.

The default should be fine for most people.

EOM
fn=d~+
rp='Installation prefix to use for add-on modules and utilities?'
: XXX Here might be another good place for an installstyle setting.
case "$siteprefix" in
") dflt=$prefix ;;
*)  dflt=$siteprefix
 ;;
esac
. ./getfile
: XXX Prefixit unit does not yet support siteprefix and vendorprefix
oldsiteprefix="
case "$siteprefix" in
") ;;
*) case "$ans" in
 "$prefix") ;;
 *) oldsiteprefix="$prefix";;
```

```
 esac
 ;;
esac
siteprefix="$ans"
siteprefixexp="$ansexp"
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteprefix.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: MailAuthor.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: Original Author: Graham Stoney <greyham@research.canon.oz.au>
?RCS:
?RCS: $Log: MailAuthor.U,v $
?RCS: Revision 3.0.1.5  1997/02/28  15:04:41  ram
?RCS: patch61: added support for src.U
?RCS:
?RCS: Revision 3.0.1.4  1994/08/29  16:05:09  ram
?RCS: patch32: avoid message sending if they said no previously
?RCS:
?RCS: Revision 3.0.1.3  1993/10/16  13:47:30  ram
?RCS: patch12: now makes sure user-specified address is in Internet format
?RCS:
?RCS: Revision
 3.0.1.2  1993/09/13  15:48:49  ram
?RCS: patch10: reverted to original intent by the Author himself
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:38:38  ram
?RCS: patch7: now prompts user for its e-mail address
?RCS: patch7: no longer silent when mail has been sent
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:06  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?RCS:
?X:
?X: This unit asks the user to please send a message to the author.
?X: To force inclusion of this unit, you must add it's name to the
?X: dependancies on the MAKE line in your private copy of End.U.
```

```
?X: This allows a smart mailagent program to automatically let users know
?X: when their package is out of date, and to allow users to be notified of
?X: any future patches.
?X:
?MAKE:MailAuthor mailpatches notifypatches usermail: test cat mailer \
 package Myread patchlevel baserev rm rsrc Oldconfig Configdir
?MAKE: -pick wipe $@ %<
?S:mailpatches:
?S: Indicates whether the user would like future patches to be mailed
?S: directly
 to them.
?S:.
?S:notifypatches:
?S: Indicates whether the user would like notification of future patches
?S: mailed to them.
?S:.
?S:usermail:
?S: This variable is used internally by Configure to keep track of the
?S: user e-mail address, where notifications or patches should be sent.
?S: A '-' value means the return address will be extracted by parsing
?S: the mail headers.
?S:.
?T:opt mailpatches notifypatches atsh status
: notify author that his package is used
if $test -f ../.config/mailauthor &&
 cmp $rsrc/patchlevel.h ../.config/mailauthor >/dev/null 2>&1
then
 status="say that you're using $package";
 case "$mailpatches" in
 true) status='have patches mailed to you as they are issued';;
 esac
 case "$notifypatches" in
 true) status='be notified when new patches are issued';;
 esac
 $cat <<EOM

You have already sent the author of $package (<MAINTLOC>) mail to
$status. If you wish, you may modify
your previous request by sending a new mail with different options.

EOM
 rp='Should
 I send a status update to <MAINTLOC>?'
 dflt=n
else
 $cat <<EOM

If you are able to send mail to the Internet, the author of $package would
```

```
really appreciate you letting me send off a quick note, just to say that you've
tried it. The author is more likely to spend time maintaining $package if it's
known that many people are using it, and you can even ask to get sent new
patches automagically this way if you wish. To protect your privacy, all I'll
say in the mail is the version of $package that you're using.

EOM
 rp='Should I send mail to <MAINTLOC>?'
 dflt=y
?X: Ensure default is 'n' if question has been asked already, in case they
?X: run Configure -d next time and answered 'n' the first time. Therefore,
?X: an empty nomail will be created later on even if no mail is sent.
 $test -f ../.config/nomail && dflt=n
fi
. ./myread
case "$ans" in
[yY]*)
 echo " "
 echo "Great! Your cooperation is really appreciated."
 $cat <<EOM

Some braindead sites do not set a proper return
 address in the From: header of
their outgoing mail, making it impossible to reply to mail they generate.
If your site is broken in this way, write to your system administrator and get
it fixed!!! In the mean time, you can manually specify the Internet e-mail
address by which the author can get back to you, should there be a need to do
so. If manually specified, it should be something like "user@domain.top".
If your mail system generates addresses correctly, specify "none".

EOM
 case "$usermail" in
 '-'|'') dflt=none;;
 *) dflt="$usermail";;
 esac
 rp='Manually specify a return address to use:'
 . ./myread
 case "$ans" in
 none|*@*.*)
  case "$ans" in
  none) usermail='-';;
  *) usermail="$ans";;
  esac
  ;;
 *)
  echo "(Address does not look like an Internet one -- ignoring it.)"
?X:
?X: If we can't trust their mailer or their return address, it's highly
```

```
?X: suggested that they only register and don't ask to get anything from
?X: the author, since it's likely to bounce in null-land --
 RAM.
?X:
  usermail='-'
  mailpatches=false
  notifypatches=false
  ;;
 esac
 echo " "
 opt=''
 rp='Would you like to have new patches automatically mailed to you?'
 case "$mailpatches" in
 true) dflt=y;;
 *) dflt=n;;
 esac
 . ./myread
 case "$ans" in
 [yY]*) opt=' mailpatches'; mailpatches=true;;
 *)
  mailpatches=false
  echo " "
  rp='Ok, would you like to simply be notified of new patches?'
  case "$notifypatches" in
  false) dflt=n;;
  *) dflt=y;;
  esac
  . ./myread
  echo " "
  case "$ans" in
  [yY]*) opt=' notifypatches'; notifypatches=true;;
  *)
   echo "Fine, I'll simply say that you've tried it then."
   notifypatches=false
   ;;
  esac
  ;;
 esac
 echo "Sending mail to <MAINTLOC>..." >&4
?X: Bizarre hack here. We can't just put @SH in the hereis lines below, because
?X: metaconfig will interpret it as a command, and there's no quoting mechanism.
?X: Do it via a variable instead.
 atsh='@SH'
 $mailer <MAINTLOC> <<EOM >/dev/null 2>&1
Subject: Command
Precedence: junk
To: <MAINTLOC>
```

```
$atsh
 package $usermail $package $baserev $patchlevel$opt
EOM
 $rm -f ../.config/mailauthor ../.config/nomail
 cp $rsrc/patchlevel.h ../.config/mailauthor
 ;;
*)
 case "$dflt" in
 "y")
  echo "Oh well, maybe next time."
  cp /dev/null ../.config/nomail
  ;;
 esac
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/MailAuthor.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: libc.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: libc.U,v $
?RCS: Revision 3.0.1.10  1997/02/28  15:56:48  ram
?RCS: patch61: replaced .a with $_a all over the place
?RCS: patch61: added support for HPUX-10 nm output
?RCS:
?RCS: Revision 3.0.1.9  1995/07/25  14:11:56  ram
?RCS: patch56: now knows about OS/2 platforms
?RCS:
?RCS: Revision 3.0.1.8  1995/05/12  12:20:47  ram
?RCS: patch54: made sure only most recent version of shared lib is picked
?RCS: patch54: final "nm -p" check now uses xscan and xrun
 like everybody
?RCS: patch54: can now grok Linux nm output with lead __IO (ADO)
?RCS: patch54: added support for Linux ELF output, using 'W' for alias (ADO)
?RCS:
?RCS: Revision 3.0.1.7  1994/10/29  16:23:40  ram
?RCS: patch36: now looks for shared libraries before anything else (ADO)
?RCS: patch36: added new nm output format (ADO)
```

```
?RCS:
?RCS: Revision 3.0.1.6  1994/08/29  16:28:10  ram
?RCS: patch32: added I-type symbols for nm output parsing on Linux
?RCS:
?RCS: Revision 3.0.1.5  1994/06/20  07:03:24  ram
?RCS: patch30: checks are now presented by succession of if/elif
?RCS: patch30: uniformized checks for shared objects with new so symbol
?RCS:
?RCS: Revision 3.0.1.4  1994/05/06  15:06:33  ram
?RCS: patch23: added shared library knowledge (ADO and WED)
?RCS:
?RCS: Revision 3.0.1.3  1994/01/24  14:12:17  ram
?RCS: patch16: can now export nm_extract as an internal-use only variable
?RCS:
?RCS: Revision 3.0.1.2  1993/09/13  16:09:03  ram
?RCS: patch10: added special handling for Apollo
 systems (WAD)
?RCS:
?RCS: Revision 3.0.1.1  1993/08/27  14:40:03  ram
?RCS: patch7: added entry for /usr/shlib/libc.so (OSF/1 machines)
?RCS:
?RCS: Revision 3.0  1993/08/18  12:08:57  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:libc +nm_extract: echo n c rm test grep Getfile Myread Oldconfig Loc \
 sed libs incpath libpth ar runnm nm nm_opt nm_so_opt contains xlibpth \
 so _a _o osname trnl tr sort uniq sysroot
?MAKE: -pick add $@ %<
?S:libc:
?S: This variable contains the location of the C library.
?S:.
?S:nm_extract:
?S: This variable holds the name of the extraction command used to process
?S: the output of nm and yield the list of defined symbols. It is used
?S: internally by Configure.
?S:.
?T:thislib try libnames xxx xscan xrun thisname com tans file
?F:!libnames !libc.tmp !tmp.imp
?LINT:extern PASE
?LINT:extern libnames
?LINT:change nm_opt
?INIT:libnames=''
: Figure out where the libc is located
case "$runnm" in
true)
?X: indentation is wrong on purpose--RAM
:
```

```
 get list of predefined functions in a handy place
echo " "
case "$libc" in
") libc=unknown
 case "$libs" in
 *-lc_s*) libc=`./loc libc_s$_a $libc $libpth`
 esac
 ;;
esac
case "$libs" in
") ;;
*)  for thislib in $libs; do
 case "$thislib" in
 -lc|-lc_s)
  : Handle C library specially below.
  ;;
 -l*)
  thislib=`echo $thislib | $sed -e 's/^-l//'`
  if try=`./loc lib$thislib.$so.'*' X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib.$so X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib$_a X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc lib$thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc $thislib X $libpth`; $test -f "$try"; then
   :
  elif try=`./loc Slib$thislib$_a X $xlibpth`; $test -f "$try"; then
   :
  else
   try="
  fi
  libnames="$libnames $try"
  ;;
 *) libnames="$libnames $thislib" ;;
 esac
 done
 ;;
esac
?X:
?X: Some systems (e.g. DG/UX) use
 "environmental" links, which make the test
?X: -f fail. Ditto for symbolic links. So in order to reliably check the
?X: existence of a file, we use test -r. It will still fail with DG/UX links
?X: though, but at least it will detect symbolic links. At some strategic
```

```
?X: points, we make use of (test -h), using a sub-shell in case builtin test
?X: does not implement the -h check for symbolic links. This makes it
?X: possible to preset libc in a hint file for instance and have it show up
?X: as-is in the question.
?X:
xxx=normal
case "$libc" in
unknown)
?X:
?X: The sed below transforms .so.9 .so.12 into something like .so.0009 .so.0012,
?X: then sorts on it to allow keeping .so.12 instead of .so.9 as the latest
?X: up-to-date library. The initial filename (before sed munging, saved in hold
?X: space via 'h') is appended via 'G' before sorting, then the leading munged
?X: part is removed after sorting. Nice efficient work from Tye McQueen.
?X: The initial blurfl is here to prevent the trailing
 pipe from producing an
?X: empty string, causing Configure to output all its set variables!
?X:
 set /lib/libc.$so
 for xxx in $libpth; do
  $test -r $1 || set $xxx/libc.$so
  : The messy sed command sorts on library version numbers.
  $test -r $1 || \
   set `echo blurfl; echo $xxx/libc.$so.[0-9]* | \
   tr ' ' $trnl | egrep -v '\.[A-Za-z]*$' | $sed -e '
    h
    s/[0-9][0-9]*/0000&/g
    s/0*\([0-9][0-9][0-9][0-9][0-9]\)/\1/g
    G
    s/\n/ /' | \
    $sort | $sed -e 's/^.* //'`
  eval set \$$#
 done
 $test -r $1 || set $sysroot/usr/ccs/lib/libc.$so
 $test -r $1 || set $sysroot/lib/libsys_s$_a
 ;;
*)
?X: ensure the test below for the (shared) C library will fail
 set blurfl
 ;;
esac
if $test -r "$1"; then
 echo "Your (shared) C library seems to be in $1."
 libc="$1"
elif $test -r /lib/libc && $test -r /lib/clib; then
?X:
?X: Apollo has its C library in /lib/clib AND /lib/libc
?X: not to mention its math library in /lib/syslib...
```

```
?X:
 echo "Your C library seems to be in both /lib/clib
 and /lib/libc."
 xxx=apollo
 libc='/lib/clib /lib/libc'
 if $test -r /lib/syslib; then
  echo "(Your math library is in /lib/syslib.)"
?X: Put syslib in libc -- not quite right, but won't hurt
  libc="$libc /lib/syslib"
 fi
elif $test -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 echo "Your C library seems to be in $libc, as you said before."
?X: For mips, and...
elif $test -r $incpath/usr/lib/libc$_a; then
 libc=$incpath/usr/lib/libc$_a;
 echo "Your C library seems to be in $libc.  That's fine."
elif $test -r /lib/libc$_a; then
 libc=/lib/libc$_a;
 echo "Your C library seems to be in $libc.  You're normal."
else
 if tans=`./loc libc$_a blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc libc blurfl/dyick $libpth`; $test -r "$tans"; then
  libnames="$libnames "`./loc clib blurfl/dyick $libpth`
 elif tans=`./loc clib blurfl/dyick $libpth`; $test -r "$tans"; then
  :
 elif tans=`./loc Slibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 elif tans=`./loc
 Mlibc$_a blurfl/dyick $xlibpth`; $test -r "$tans"; then
  :
 else
  tans=`./loc Llibc$_a blurfl/dyick $xlibpth`
 fi
 if $test -r "$tans"; then
  echo "Your C library seems to be in $tans, of all places."
  libc=$tans
 else
  libc='blurfl'
 fi
fi
if $test $xxx = apollo -o -r "$libc" || (test -h "$libc") >/dev/null 2>&1; then
 dflt="$libc"
 cat <<EOM

If the guess above is wrong (which it might be if you're using a strange
compiler, or your machine supports multiple models), you can override it here.
```

```
EOM
else
 dflt=''
 echo $libpth | $tr ' ' $trnl | $sort | $uniq > libpath
 cat >&4 <<EOM
I can't seem to find your C library.  I've looked in the following places:

EOM
 $sed 's/^/ /' libpath
 cat <<EOM

None of these seems to contain your C library. I need to get its name...

EOM
fi
fn=f
rp='Where is your C library?'
. ./getfile
libc="$ans"

echo " "
echo $libc $libnames | $tr ' ' $trnl | $sort | $uniq > libnames
set X `cat libnames`
shift
xxx=files
case $# in 1) xxx=file; esac
echo
 "Extracting names from the following $xxx for later perusal:" >&4
echo " "
$sed 's/^/ /' libnames >&4
echo " "
$echo $n "This may take a while...$c" >&4

?X:
?X: Linux may need the special Dynamic option to nm for shared libraries.
?X: In general, this is stored in the nm_so_opt variable.
?X: Unfortunately, that option may be fatal on non-shared libraries.
?X:
for file in $*; do
 case $file in
 *$so*) $nm $nm_so_opt $nm_opt $file 2>/dev/null;;
 *) $nm $nm_opt $file 2>/dev/null;;
 esac
done >libc.tmp

$echo $n ".$c"
?X:
?X: To accelerate processing, we look at the correct 'sed' command
```

```
?X: by using a small subset of libc.tmp, i.e. fprintf function.
?X: When we know which sed command to use, do the name extraction
?X:
$grep fprintf libc.tmp > libc.ptf
?X:
?X: In order to enhance readability and save some space, we define
?X: some variables that will be "eval"ed.
?X:
xscan='eval "<libc.ptf $com >libc.list"; $echo $n ".$c" >&4'
xrun='eval "<libc.tmp $com >libc.list"; echo "done." >&4'
?X:
 BSD-like output, I and W types added for Linux
?X: Some versions of Linux include a leading __IO in the symbol name.
?X: HP-UX 10 reportedly has trailing spaces, though I'm surprised it has
?X: BSD-like output.  (AD).
?X: GNU extension: i is "indirect function"
xxx='[ADTSIWi]'
if com="$sed -n -e 's/__IO//' -e 's/^.* $xxx  *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: SYSV-like output
elif com="$sed -n -e 's/^__*//' -e 's/^\([a-zA-Z_0-9$]*\).*xtern.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/|UNDEF/d' -e '/FUNC..GL/s/^.*|__*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.* D __*//p' -e 's/^.* D //p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^_//' -e 's/^\([a-zA-Z_0-9]*\).*xtern.*text.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$'
 libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$grep '|' | $sed -n -e '/|COMMON/d' -e '/|DATA/d' \
    -e '/ file/d' -e 's/^\([^  ]*\).*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
```

```
elif com="$sed -n -e 's/^.*|FUNC |GLOB .*|//p' -e 's/^.*|FUNC |WEAK .*|//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: mips nm output (sysV)
elif com="$sed -n -e 's/^__//' -e '/|Undef/d' -e '/|Proc/s/ .*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/^.*|Proc .*|Text *| *//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e '/Def. Text/s/.* \([^ ]*\)\$/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: OS/2
 nm output
elif com="$sed -n -e 's/^[-0-9a-f ]*_\(.*\)=.*/\1/p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
elif com="$sed -n -e 's/.*\.text n\ \ \ \.//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
?X: AIX nm output
elif com="sed -n -e 's/^__.*//' -e 's/[       ]*D[    ]*[0-9]*.*//p'";\
 eval $xscan;\
 $contains '^fprintf$' libc.list >/dev/null 2>&1; then
  eval $xrun
else
 $nm -p $* 2>/dev/null >libc.tmp
 $grep fprintf libc.tmp > libc.ptf
 if com="$sed -n -e 's/^.* [ADTSIW]  *_[_.]*//p' -e 's/^.* [ADTSIW] //p'";\
  eval $xscan; $contains '^fprintf$' libc.list >/dev/null 2>&1
 then
  nm_opt='-p'
  eval $xrun
 else
  echo " "
  echo "$nm didn't seem to work right. Trying $ar instead..." >&4
  com="
  if $ar t $libc > libc.tmp && \
   $contains '^fprintf$' libc.tmp >/dev/null 2>&1
  then
   for thisname in $libnames $libc; do
```

```
    $ar t $thisname >>libc.tmp
   done
   $sed -e "s/\\$_o\$//" < libc.tmp > libc.list
   echo
 "Ok." >&4
  elif test "X$osname" = "Xos2" && $ar tv $libc > libc.tmp; then
?X: Repeat libc to extract forwarders to DLL entries too
   for thisname in $libnames $libc; do
    $ar tv $thisname >>libc.tmp
?X: Revision 50 of EMX has bug in ar: it will not extract forwarders
?X: to DLL entries.  Use emximp which will extract exactly them.
    emximp -o tmp.imp $thisname \
        2>/dev/null && \
        $sed -e 's/^\([_a-zA-Z0-9]*\) .*$/\1/p' \
        < tmp.imp >>libc.tmp
    $rm -f tmp.imp
   done
   $sed -e "s/\\$_o\$//" -e 's/^ \+//' < libc.tmp > libc.list
   echo "Ok." >&4
  else
   echo "$ar didn't seem to work right." >&4
   echo "Maybe this is a Cray...trying bld instead..." >&4
   if  bld t $libc | \
    $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" > libc.list &&
    $test -s libc.list
   then
    for thisname in $libnames; do
     bld t $libnames | \
     $sed -e 's/.*\///' -e "s/\\$_o:.*\$//" >>libc.list
     $ar t $thisname >>libc.tmp
    done
    echo "Ok." >&4
   else
    echo
 "That didn't work either.  Giving up." >&4
    exit 1
   fi
  fi
 fi
fi
nm_extract="$com"
case "$PASE" in
define)
   echo " "
   echo "Since you are compiling for PASE, extracting more symbols from libc.a ...">&4
   dump -Tv /lib/libc.a | awk '$7 == "/unix" {print $5 " " $8}' | grep "^SV" | awk '{print $2}' >> libc.list
   ;;
*)  if $test -f /lib/syscalls.exp; then
```

```
 echo " "
 echo "Also extracting names from /lib/syscalls.exp for good ole AIX..." >&4
 $sed -n 's/^\([^  ]*\)[  ]*syscall[0-9]*[  ]*$/\1/p' \
  /lib/syscalls.exp >>libc.list
   fi
   ;;
esac
;;
esac
$rm -f libnames libpath
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/libc.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1998 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasfield string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat st_blocks i_sysstat sys/stat.h
?X:  eval $hasfield
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat st_blocks $hdrs
?X: eval $hasfield
?X:
?MAKE:Hasfield: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct field
?V:hasfield
: Define hasfield macro for Configure internal use
hasfield='varname=$1;
 struct=$2; field=$3; shift; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 esac ;
```

```
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; char* bar; bar = (char*)foo.$field; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasfield.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
?RCS: You may distribute under the terms of either the GNU General Public
?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasstruct string that is used internally
?X: by Configure to check if this system has a field for a
?X: particular struct (of if this system has a particular struct!)
?X:
?X: To use it, say something like:
?X:  set d_statblocks stat i_sysstat sys/stat.h
?X:  eval $hasstruct
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/foo.h
?X:  $i_sysbar sys/bar.h
?X:  $i_syszot sys/zot.h
?X:  $i_zappa zappa.h"
?X: set d_statblocks stat $hdrs
?X: eval $hasstruct
?X:
?MAKE:Hasstruct: Setvar rm_try test Compile
?MAKE: -pick add $@ %<
?T:varname struct
?V:hasstruct
: Define hasstruct macro for Configure internal use
hasstruct='varname=$1; struct=$2; shift;
 shift;
while $test $# -ge 2; do
 case "$1" in
```

```
 $define) echo "#include <$2>";;
 esac ;
   shift 2;
done > try.c;
echo "int main () { struct $struct foo; }" >> try.c;
set try;
if eval $compile; then
 val="$define";
else
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasstruct.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: sitescript.U,v $
?RCS:
?RCS: Copyright (c) 1999 Andy Dougherty
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: sitescript.U,v $
?RCS:
?MAKE:sitescript sitescriptexp installsitescript : Getfile Oldconfig test \
 Setprefixvar sitebin siteprefix
?MAKE: -pick add $@ %<
?Y:TOP
?D:sitescript="
?S:sitescript:
?S: This variable holds the name of the directory in which the user wants
?S: to put add-on publicly executable files for the package in question.  It
?S: is most often a local directory such as /usr/local/bin. Programs using
?S: this variable must be prepared to deal with ~name substitution.
?S: The standard
 distribution will put nothing in this directory.
?S: After perl has been installed, users may install their own local
?S: scripts in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
```

```
?D:sitescriptexp="
?S:sitescriptexp:
?S: This is the same as the sitescript variable, but is filename expanded at
?S: configuration time, for use in your makefiles.
?S:.
?D:installsitescript="
?S:installsitescript:
?S: This variable is usually the same as sitescriptexp, unless you are on
?S: a system running AFS, in which case they may differ slightly. You
?S: should always use this variable within your makefiles for portability.
?S:.
?LINT:change prefixvar
?LINT:set installsitescript
?LINT:set sitescript
?LINT:set sitescriptexp
: determine where add-on public executable scripts go
case "$sitescript" in
") dflt=$siteprefix/script
 $test -d $dflt || dflt=$sitebin ;;
*)  dflt="$sitescript" ;;
esac
fn=d~+
rp='Pathname where add-on public executable scripts
 should be installed?'
. ./getfile
prefixvar=sitescript
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/sitescript.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: h_sysfile.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: h_sysfile.U,v $
?RCS: Revision 3.0  1993/08/18  12:08:13  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?MAKE:h_sysfile: Nothing
?MAKE: -pick add $@ %<
```

```
?S:h_sysfile:
?S: This is variable gets set in various places to tell i_sys_file that
?S: <sys/file.h> should be included.
?S:.
: Initialize h_sysfile
h_sysfile=false
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/h_sysfile.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Instruct.U,v 3.0.1.3 1997/02/28 15:02:55 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic License,
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?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: Instruct.U,v $
?RCS: Revision 3.0.1.3  1997/02/28  15:02:55  ram
?RCS: patch61: logname / whoami sequence rewritten to use case
?RCS:
?RCS: Revision 3.0.1.2  1995/02/15  14:11:34  ram
?RCS: patch51: author name now appears at the end of the paragraph (WED)
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:12:05  ram
?RCS: patch45: now documents the & escape to turn -d on at the read prompt
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:04  ram
?RCS: Baseline for
 dist 3.0 netwide release.
?RCS:
?X:
?X: This unit spew out the directions that we want everyone to read.  I try to
?X: keep the first "pagefull" much less than a page since they don't know it
?X: isn't going to go shooting off the top of the screen, and we don't want
?X: to panic them yet.
?X:
?MAKE:Instruct: Myread Configdir Devel contains
?MAKE: -pick wipe $@ %<
?T:user needman firsttime
: general instructions
needman=true
firsttime=true
user=`(logname) 2>/dev/null`
```

```
case "$user" in
") user=`whoami 2>&1`;;
esac
if $contains "^$user\$" ../.config/instruct >/dev/null 2>&1; then
 firsttime=false
 echo " "
 rp='Would you like to see the instructions?'
 dflt=n
 . ./myread
 case "$ans" in
 [yY]*) ;;
 *) needman=false;;
 esac
fi
if $needman; then
 cat <<EOH

This installation shell script will examine your system and ask you questions
to determine how the <PACKAGENAME> package should be installed. If you get
stuck on a question, you may use a ! shell escape to start a subshell or
execute a
 command.  Many of the questions will have default answers in square
brackets; typing carriage return will give you the default.

On some of the questions which ask for file or directory names you are allowed
to use the ~name construct to specify the login directory belonging to "name",
even if you don't have a shell which knows about that.  Questions where this is
allowed will be marked "(~name ok)".

EOH
 rp="
 dflt='Type carriage return to continue'
 . ./myread
 cat <<'EOH'

The prompter used in this script allows you to use shell variables and
backticks in your answers.  You may use $1, $2, etc...  to refer to the words
in the default answer, as if the default line was a set of arguments given to a
script shell.  This means you may also use $* to repeat the whole default line,
so you do not have to re-type everything to add something to the default.

Every time there is a substitution, you will have to confirm.  If there is an
error (e.g. an unmatched backtick), the default answer
 will remain unchanged
and you will be prompted again.

If you are in a hurry, you may run 'Configure -d'.  This will bypass nearly all
the questions and use the computed defaults (or the previous answers if there
```

```
was already a config.sh file). Type 'Configure -h' for a list of options.
You may also start interactively and then answer '& -d' at any prompt to turn
on the non-interactive behaviour for the remainder of the execution.

EOH
 . ./myread
 cat <<EOH

Much effort has been expended to ensure that this shell script will run on any
Unix system.  If despite that it blows up on yours, your best bet is to edit
Configure and run it again.  If you can't run Configure for some reason,
you'll have to generate a config.sh file by hand.  Whatever problems you
have, let me (<MAINTLOC>) know how I blew it.

This installation script affects things in two ways:

1) it may do direct variable substitutions on some of the files included
  in this kit.
2) it builds a config.h file for inclusion in
 C programs.  You may edit
  any of these files as the need arises after running this script.

If you make a mistake on a question, there is no easy way to back up to it
currently.  The easiest thing to do is to edit config.sh and rerun all the SH
files.  Configure will offer to let you do this before it runs the SH files.

EOH
?X: In case they played with the prompter...
 dflt='Type carriage return to continue'
 . ./myread
 case "$firsttime" in
 true) echo $user >>../.config/instruct;;
 esac
fi

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/modified/Instruct.U
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?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1999 Jarkko Hietaniemi
?RCS:
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
```

```
?RCS:
?MAKE:siteman1dir siteman1direxp installsiteman1dir: Getfile \
 Setprefixvar prefix siteprefix man1dir sed
?MAKE: -pick add $@ %<
?Y:TOP
?D:siteman1dir=''
?S:siteman1dir:
?S: This variable contains the name of the directory in which site-specific
?S: manual source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S: The standard distribution will put nothing in this directory.
?S: After perl
 has been installed, users may install their own local
?S: man1 pages in this directory with
?S:  MakeMaker Makefile.PL
?S: or equivalent.  See INSTALL for details.
?S:.
?D:siteman1direxp=''
?S:siteman1direxp:
?S: This variable is the same as the siteman1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installsiteman1dir=''
?S:installsiteman1dir:
?S: This variable is really the same as siteman1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location. For extra
?S: portability, you should only use this variable within your makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installsiteman1dir
?LINT:set siteman1dir
?LINT:set siteman1direxp
: determine where add-on manual pages go
case "$siteman1dir" in
'') dflt=`echo $man1dir | $sed "s#^$prefix#$siteprefix#"` ;;
*) dflt=$siteman1dir ;;
esac
case "$dflt" in
'|' ') dflt=none ;;
esac
fn=dn+~
rp='Pathname
 where the site-specific manual pages should be installed?'
. ./getfile
prefixvar=siteman1dir
. ./setprefixvar
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/siteman1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: Hasproto.U $
?RCS:
?RCS: Copyright (c) 1998 Andy Dougherty
?RCS:
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?RCS: License or the Artistic License, as specified in the README file.
?RCS:
?X: This unit generates a $hasproto string that is used internally
?X: by Configure to check if this system has a prototype for a
?X: particular function
?X:
?X: To use it, say something like:
?X:  set d_getnetent_proto getnetent $i_netdb netdb.h
?X:  eval $hasproto
?X: Or, for more complicated sets of headers, do something like
?X: hdrs="$define sys/types.h
?X:  $i_systime sys/time.h
?X:  $i_sysselct sys/select.h
?X:  $i_netdb netdb.h"
?X: set d_getnetent_proto getnetent $hdrs
?X: eval $hasproto
?X:
?X: There is also an 'escape' hatch built in.  If you have a pair
?X: of args   'literal 'stuff' then 'stuff' gets included literally
?X: into the test program.  See Protochk.U for more details.
?X:
?MAKE:Hasproto:
 Setvar cppstdin cppflags cppminus contains rm_try test
?MAKE: -pick add $@ %<
?T:func varname
?F:!try.c
?V:hasproto
: Define hasproto macro for Configure internal use
hasproto='varname=$1; func=$2; shift; shift;
while $test $# -ge 2; do
 case "$1" in
 $define) echo "#include <$2>";;
 literal) echo "$2" ;;
 esac ;
   shift 2;
done > try.c;
$cppstdin $cppflags $cppminus < try.c > tryout.c 2>/dev/null;
if $contains "$func.*(" tryout.c >/dev/null 2>&1; then
```

```
 echo "$func() prototype found.";
 val="$define";
else
 echo "$func() prototype NOT found.";
 val="$undef";
fi;
set $varname;
eval $setvar;
$rm_try tryout.c'
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/protos/Hasproto.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
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?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: Init.U,v $
?RCS: Revision 3.0.1.1  1994/10/31  09:45:59  ram
?RCS: patch44: removed Options from MAKE to prevent Init overrides
?RCS: patch44: option processing now done after Myinit thanks to new Begin.U
?RCS: patch44: moved "Beginning of configuration questions" to Begin.U
?RCS: patch44: moved signal trapping instruction to Begin.U as well
?RCS:
?RCS: Revision 3.0  1993/08/18  12:05:02  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This file initializes certain default variables
 used by Configure.  They
?X: may be overridden or added to by definitions in Myinit.U.
?X:
?MAKE:Init eunicefix _exe: Null
?MAKE: -pick add $@ %<
?MAKE: -pick weed $@ ./Init
?S:eunicefix:
?S: When running under Eunice this variable contains a command which will
?S: convert a shell script to the proper form of text file for it to be
?S: executable by the shell.  On other systems it is a no-op.
?S:.
?S:_exe (exe_ext):
```

```
?S: This variable defines the extension used for executable files.
?S: For unix it is empty.  Other possible values include '.exe'.
?S: DJGPP, Cygwin and OS/2 use '.exe'.  Stratus VOS uses '.pm'.
?S: On operating systems which do not require a specific extension
?S: for executable files, this variable is empty.
?S:.
?V:define undef smallmach:rmlist
?X:
?X: Throughout the units, one may make use of $define and $undef to reference
?X: a defined symbol or an undefined one. There is no need to add them in
?X: the dependency line since this unit makes them visible via ?V:, and
?X:
 everyone inherits from those symbols since by convention Init.U is the
?X: root dependency.
?X:
?T: DJGPP
: Initialize wide constants
define='define'
undef='undef'
smallmach='pdp11 i8086 z8000 i80286 iAPX286'
rmlist=''

: We must find out about Eunice early
eunicefix=':'
if test -f /etc/unixtovms; then
 eunicefix=/etc/unixtovms
fi
if test -f /etc/unixtovms.exe; then
 eunicefix=/etc/unixtovms.exe
fi

: Set executable suffix now -- needed before hints available
if test -f "/libs/version.library"; then
 : Amiga OS
  _exe=""
elif test -f "/system/gnu_library/bin/ar.pm"; then
 : Stratus VOS
 _exe=".pm"
elif test -n "$DJGPP"; then
 : DOS DJGPP
  _exe=".exe"
elif test -d c:/. ; then
 : OS/2 or cygwin
 _exe=".exe"
else
 : All other UNIX systems
 _exe=""
fi
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/Init.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: install.U 1 2006-08-24 12:32:52Z rmanfredi $
?RCS:
?RCS: Copyright (c) 1991-1997, 2004-2006, Raphael Manfredi
?RCS:
?RCS: You may redistribute only under the terms of the Artistic Licence,
?RCS: as specified in the README file that comes with the distribution.
?RCS: You may reuse parts of this distribution only within the terms of
?RCS: that same Artistic Licence; a copy of which may be found at the root
?RCS: of the source tree for dist 4.0.
?RCS:
?RCS: $Log: install.U,v $
?RCS: Revision 3.0.1.2  1995/09/25  09:16:37  ram
?RCS: patch59: all possible install programs are now looked for
?RCS:
?RCS: Revision 3.0.1.1  1995/01/11  15:30:41  ram
?RCS: patch45: created
?RCS:
?MAKE:install installdir: Loc Oldconfig Getfile cat test startsh rm +cc \
 eunicefix package contains mkdir echo n c
?MAKE: -pick add $@ %<
?S:install:
?S: This variable contains the name of an install program that can accept
?S: BSD-style arguments.
 It must correctly support -c, -s, and -m at least.
?S: It is a fully qualified pathname when found. If you have a local
?S: install.SH file at the root directory of your package, it is assumed to
?S: be the default script emulating a BSD install and the variable will be
?S: set to ./install. Otherwise, it is set to plain 'install', relying on
?S: the user's PATH to perform miracles.
?S:.
?S:installdir:
?S: This variable contains the name of a program that can install nested
?S: directories. Often set to 'mkdir -p', it can also be 'install -d' if
?S: you have such a beast and lack the former. If you have an install.SH
?S: file at the root directory of your package, it will be used in last
?S: resort, setting the variable to './install -d'. Otherwise, it is set to
?S: plain 'mkdir', and cross your fingers!
?S:.
?T:dir file tryit prog creatdir either
?F:!tryinst
: locate a BSD compatible install program
echo " "
echo "Looking for a BSD-compatible install program..." >&4
```

```
@if installdir
creatdir=''
@end
case
 "$install" in
'')
 tryit=''
 for dir in $pth; do
  for file in ginstall installbsd scoinst install; do
   if $test -f $dir/$file; then
    tryit="$tryit $dir/$file"
   fi
  done
 done
 $cat >try.c <<EOC
int main()
{
 printf("OK\n");
 exit(0);
}
EOC
 if $cc -o try try.c >/dev/null 2>&1; then
  cp try try.ns
  strip try >/dev/null 2>&1
 else
  echo "(I can't seem to compile a trivial C program -- bypassing.)"
  echo "try" >try
  cp try try.ns
 fi
 $cat >tryinst <<EOS
$startsh
$rm -rf foo d
@if installdir
\$1 -d foo/bar
@end
$mkdir d
\$1 -c -m 764 try.ns d
\$1 -c -s -m 642 try.ns d/try
EOS
 chmod +x tryinst
 $eunicefix tryinst
 dflt=''
 either=''
 for prog in $tryit; do
  $echo $n "Checking $prog... $c"
  ./tryinst $prog >/dev/null 2>&1
@if installdir
  if $test -d foo/bar; then
```

```
  creatdir="$prog -d"
 fi
@end
 (ls -l d/try >try.ls; ls -l d/try.ns >tryno.ls) 2>/dev/null
 if (cmp -s d/try try && cmp -s d/try.ns try.ns && \
  $contains 'rwxrw-r--' tryno.ls &&
\
  $contains 'rw-r---w-' try.ls) >/dev/null 2>&1
 then
  dflt="$prog"
  echo "ok, that will do."
  break
 fi
 echo "not good$either."
 either=' either'
 $rm -f try*.ls
done
$rm -rf foo d tryinst try try*.ls try.*
case "$dflt" in
")
@if {test -f ../install.SH}
 echo "Hopefully, $package comes with its own install script!"
 dflt='./install'
@else
 dflt='install'
@end
 ;;
esac
;;
*) dflt="$install";;
esac
$cat <<EOM

I will be requiring a BSD-compatible install program (one that allows
options like -s to strip executables or -m to specify a file mode) to
install $package.

If the question below contains a fully qualified default path, then it
is probably ok. If it is an unqualified name such as 'install', then it
means I was unable to find out a good install program I could use. If
@if {test -f ../install.SH}
you know of one, please tell me about it. If the default is './install',
then I shall be using the install script supplied with $package.
@else
you know of one,
 please tell me about it.
@end
```

```
EOM
@if {test -f ../install.SH}
fn='/fe~(install,./install)'
@else
fn='/fe~(install)'
@end
rp='Which install program shall I use?'
. ./getfile
install="$ans"

@if installdir
: how can we create nested directories?
echo " "
echo "Ok, let's see how we can create nested directories..." >&4
case "$installdir" in
")
?X: First time, maybe we already found out a working one in $creatdir above...
?X: Prefer "mkdir -p" because of bugs in GNU install when not running as root
 $mkdir -p foo/bar >/dev/null 2>&1
 if $test -d foo/bar; then
  echo "Great, we can build them using 'mkdir -p'."
  creatdir='mkdir -p'
 else
  case "$creatdir" in
  ")
   if eval "$install -d foo/bar"; $test -d foo/bar; then
    creatdir="install -d"
    echo "It looks like '$creatdir' will do it for us."
   fi
   ;;
  *)
   eval "$creatdir foo/bar" >/dev/null 2>&1
   if $test -d foo/bar; then
    echo "Ah! We can use '$creatdir' to do just that."
   else
    creatdir="
   fi
   ;;
  esac
 fi
 $rm
 -rf foo
 case "$creatdir" in
 ")
  echo "Heck! Another ancient system lacking the comfort of modern ones!"
@if {test -f ../install.SH}
  echo "You can thank $package for bringing you its own install script!"
  installdir='./install -d'
```

```
@else
  echo "We have no choice but to use plain old 'mkdir' -- wish me luck!"
  installdir=mkdir
@end
  ;;
 *) installdir="$creatdir";;
 esac
 ;;
*) echo "As you already told me, '$installdir' should work.";;
esac

@end
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/dist/U/install.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: End.U,v 3.0 1993/08/18 12:04:51 ram Exp $
?RCS:
?RCS: Copyright (c) 1991-1993, Raphael Manfredi
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: End.U,v $
?RCS: Revision 3.0  1993/08/18  12:04:51  ram
?RCS: Baseline for dist 3.0 netwide release.
?RCS:
?X:
?X: This unit serves as the goal which forces make to choose all the units that
?X: ask questions.  The $W on the ?MAKE: line is the list of all symbols wanted.
?X: To force any unit to be included, copy this unit to your private U directory
?X: and add the name of the unit desired to the ?MAKE: dependency line.
?X:
?MAKE:End perllibs: $W cppstdin gzip zip
 libs usedl osname osvers
?MAKE: -pick add $@ %<
?S:perllibs:
?S: The list of libraries needed by Perl only (any libraries needed
?S: by extensions only will by dropped, if using dynamic loading).
?S:.
?INIT:perllibs="
?LINT:use $W
?LINT:use gzip zip
?LINT:change cppstdin
```

```
: Remove libraries needed only for extensions
: The appropriate ext/Foo/Makefile.PL will add them back in, if necessary.
: The exception is SunOS 4.x, which needs them.
case "${osname}X${osvers}" in
sunos*X4*)
   perllibs="$libs"
   ;;
*) case "$usedl" in
   $define|true|[yY]*)
     set X `echo " $libs " | sed -e 's@ -lndbm @ @' -e 's@ -lgdbm @ @' -e 's@ -lgdbm_compat @ @' -e 's@ -ldbm @
@' -e 's@ -ldb @ @'`
     shift
     perllibs="$*"
     ;;
   *) perllibs="$libs"
     ;;
   esac
   ;;
esac

?X: If the user has the cppstdin wrapper, perl.c will try to call
?X: CPPSTDIN, but that will point to a location in the build
?X: directory, not the installed version!.  Here, we'll just strip the
?X: name down to 'cppstdin',
 and rely on the fact that perl.c will
?X: then call SCRIPTDIR/cppstdin, but local things like 'make depend'
?X: will continue to work.
: Remove build directory name from cppstdin so it can be used from
: either the present location or the final installed location.
echo " "
: Get out of the UU directory to get correct path name.
cd ..
case "$cppstdin" in
`pwd`/cppstdin)
 echo "Stripping down cppstdin path name"
 cppstdin=cppstdin
 ;;
esac
cd UU

: end of configuration questions
echo " "
echo "End of configuration questions."
echo " "
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/End.U

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```
?RCS: $Id: vendorhtml1dir.U,v 1.1 1999/07/08 18:32:57 doughera Exp doughera $
?RCS:
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?RCS: of the source tree for dist 3.0.
?RCS:
?RCS: $Log: vendorhtml1dir.U,v $
?RCS: Revision 1.1  1999/07/08 18:32:57  doughera
?RCS: Initial revision
?RCS:
?MAKE:vendorhtml1dir vendorhtml1direxp installvendorhtml1dir: html1dir Getfile \
 Setprefixvar Oldconfig Prefixit test vendorprefix prefix sed
?MAKE: -pick add $@ %<
?Y:TOP
?S:vendorhtml1dir:
?S: This variable contains the name of the directory for html
?S: pages.  It may have a ~ on the front.
?S: The standard distribution will put nothing in this
 directory.
?S: Vendors who distribute perl may wish to place their own
?S: html pages in this directory with
?S:  MakeMaker Makefile.PL INSTALLDIRS=vendor
?S: or equivalent.  See INSTALL for details.
?S:.
?S:vendorhtml1direxp:
?S: This variable is the ~name expanded version of vendorhtml1dir, so that you
?S: may use it directly in Makefiles or shell scripts.
?S:.
?D:installvendorhtml1dir="
?S:installvendorhtml1dir:
?S: This variable is really the same as vendorhtml1direxp but may differ on
?S: those systems using AFS. For extra portability, only this variable
?S: should be used in makefiles.
?S:.
?LINT:change prefixvar
?LINT:set installvendorhtml1dir
: Set the vendorhtml1dir variables
case "$vendorprefix" in
") vendorhtml1dir="
 vendorhtml1direxp="
 ;;
*) : determine where vendor-supplied html pages go.
```

```
 : There is no standard location, so try to copy the previously-selected
 : directory structure for the core html pages.
 : XXX Better default suggestions would be welcome.
 case "$vendorhtml1dir"
 in
 ") dflt=`echo "$html1dir" | $sed "s#^$prefix#$vendorprefix#"` ;;
 *) dflt=$vendorhtml1dir ;;
 esac
 case "$dflt" in
 "|' ') dflt=none ;;
 esac
 fn=dn+~
 rp='Pathname for the vendor-supplied html pages?'
 . ./getfile
 vendorhtml1dir="$ans"
 vendorhtml1direxp="$ansexp"
 ;;
esac
: Use ' ' for none so value is preserved next time through Configure
$test X"$vendorhtml1dir" = "X" && vendorhtml1dir=' '
prefixvar=vendorhtml1dir
. ./installprefix
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/vendorhtml1dir.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id$
?RCS:
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?RCS: of the source tree for dist 3.0.
?X:
?X: Useless unit dropped.  Use randfunc instead.
?X:
?LINT:empty
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/compline/randbits.U
No license file was found, but licenses were detected in source scan.

```
?RCS: $Id: man1dir.U,v 3.2 1999/07/08 20:57:21 doughera Exp doughera $
?RCS:
?RCS: Copyright (c) 1996, 1999 Andy Dougherty
```

```
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?RCS:
?RCS: $Log: man1dir.U,v $
?RCS: Revision 3.2  1999/07/08 20:57:21  doughera
?RCS: Used installprefix.
?RCS:
?RCS: Revision 3.1  1999/07/08 20:52:19  doughera
?RCS: Updated for perl5.005_5x
?RCS:
?RCS: Revision 3.0.1.1  1997/02/28  16:10:29  ram
?RCS: patch61: created
?RCS:
?X: This was originally specific to perl5.  Since perl5 has man pages that
?X: go in both man1/ and man3/ directories, we need both man1dir
?X: and
 man3dir.  This unit is basically dist's mansrc.U with
?X: man1 used instead of man everywhere.
?X:
?MAKE:man1dir man1direxp man1ext installman1dir: cat nroff Loc Oldconfig \
 spackage test Getfile Setprefixvar Prefixit Prefixup sysman Myread \
 prefixexp
?MAKE: -pick add $@ %<
?Y:TOP
?D:man1dir=''
?S:man1dir:
?S: This variable contains the name of the directory in which manual
?S: source pages are to be put.  It is the responsibility of the
?S: Makefile.SH to get the value of this into the proper command.
?S: You must be prepared to do the ~name expansion yourself.
?S:.
?D:man1direxp=''
?S:man1direxp:
?S: This variable is the same as the man1dir variable, but is filename
?S: expanded at configuration time, for convenient use in makefiles.
?S:.
?D:installman1dir=''
?S:installman1dir:
?S: This variable is really the same as man1direxp, unless you are using
?S: AFS in which case it points to the read/write location whereas
?S: man1direxp only points to the read-only access location.
 For extra
?S: portability, you should only use this variable within your makefiles.
```

```
?S:.
?S:man1ext:
?S: This variable contains the extension that the manual page should
?S: have: one of 'n', 'l', or '1'.  The Makefile must supply the '.'.
?S: See man1dir.
?S:.
?T:lookpath
?LINT:change prefixvar
?LINT:set man1direxp
: determine where manual pages go
set man1dir man1dir none
eval $prefixit
$cat <<EOM

$spackage has manual pages available in source form.
EOM
case "$nroff" in
nroff)
 echo "However, you don't have nroff, so they're probably useless to you."
 case "$man1dir" in
 ") man1dir="none";;
 esac;;
esac
echo "If you don't want the manual sources installed, answer 'none'."
case "$man1dir" in
' ') dflt=none
 ;;
")
 lookpath="$prefixexp/share/man/man1"
 lookpath="$lookpath $prefixexp/man/man1 $prefixexp/man/l_man/man1"
 lookpath="$lookpath $prefixexp/man/p_man/man1"
 lookpath="$lookpath $prefixexp/man/u_man/man1"
 lookpath="$lookpath $prefixexp/man/man.1"
?X: Experience has shown people
 expect man1dir to be under prefix,
?X: so we now always put it there.  Users who want other behavior
?X: can answer interactively or use a command line option.
?X: Does user have System V-style man paths.
 case "$sysman" in
 */?_man*) dflt=`./loc . $prefixexp/l_man/man1 $lookpath` ;;
 *) dflt=`./loc . $prefixexp/man/man1 $lookpath` ;;
 esac
 set dflt
 eval $prefixup
 ;;
*)  dflt="$man1dir"
 ;;
esac
```

```
echo " "
fn=dn+~
rp="Where do the main $spackage manual pages (source) go?"
. ./getfile
if $test "X$man1direxp" != "X$ansexp"; then
 installman1dir=''
fi
prefixvar=man1dir
. ./setprefixvar

case "$man1dir" in
'') man1dir=' '
 installman1dir='';;
esac

: What suffix to use on installed man pages

case "$man1dir" in
' ')
 man1ext='0'
 ;;
*)
 rp="What suffix should be used for the main $spackage man pages?"
 case "$man1ext" in
 '') case "$man1dir" in
  *1)  dflt=1 ;;
  *1p) dflt=1p ;;
  *1pm) dflt=1pm ;;
  *l) dflt=l;;
  *n) dflt=n;;
  *o) dflt=o;;
  *p) dflt=p;;
  *C) dflt=C;;
  *L) dflt=L;;
  *L1)
 dflt=L1;;
  *) dflt=1;;
  esac
  ;;
 *) dflt="$man1ext";;
 esac
 . ./myread
 man1ext="$ans"
 ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/installdirs/man1dir.U

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```
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?RCS: that same Artistic License; a copy of which may be found at the root
?RCS: of the source tree for dist 3.0.
?RCS:
?MAKE:full_ar: ar
?MAKE: -pick add $@ %<
?S:full_ar:
?S: This variable contains the full pathname to 'ar', whether or
?S: not the user has specified 'portability'.  This is only used
?S: in the Makefile.SH.
?S:.
: Store the full pathname to the ar program for use in the C program
: Respect a hint or command line value for full_ar.
case "$full_ar" in
") full_ar=$ar ;;
esac
```

Found in path(s):
* /perl-5-34-0-orig-regen-configure-1-tar-xz/metaconfig-5.34.0/U/perl/Loc_ar.U

1.5582 g++ 4:11.2.0-1ubuntu1

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1.5583 openssh-client 1:8.9p1-3ubuntu0.13

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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

This file is part of the OpenSSH software.

The licences which components of this software fall under are as follows. First, we will summarize and say that all components are under a BSD licence, or a licence more free than that.

OpenSSH contains no GPL code.

1)

```
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 *
 * As far as I am concerned, the code I have written for this software
 * can be used freely for any purpose.  Any derived versions of this
 * software must be clearly marked as such, and if the derived work is
 * incompatible with the protocol description in the RFC file, it must be
 * called by a name other than "ssh" or "Secure Shell".

[Tatu continues]
 *  However, I am not implying to give any licenses to any patents or
 * copyrights held by third parties, and the software includes parts that
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 - RSA is no longer included, found in the OpenSSL library
 - IDEA is no longer included, its use is deprecated
 - DES is now external, in the OpenSSL library
 - GMP is no longer used, and instead we call BN code from OpenSSL
 - Zlib is now external, in a library
 - The make-ssh-known-hosts script is no longer included
 - TSS has been removed
 - MD5 is now external, in the OpenSSL library
 - RC4 support has been replaced with ARC4 support from OpenSSL
 - Blowfish is now external, in the OpenSSL library

[The licence continues]

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```
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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*
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#include "includes.h"

#if !defined(HAVE_STATVFS) || !defined(HAVE_FSTATVFS)

#include <sys/types.h>

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
#endif
#ifdef HAVE_SYS_STATFS_H
#include <sys/statfs.h>
#endif
#ifdef
 HAVE_SYS_VFS_H
#include <sys/vfs.h>
#endif

#ifndef HAVE_FSBLKCNT_T
typedef unsigned long fsblkcnt_t;
#endif
#ifndef HAVE_FSFILCNT_T
typedef unsigned long fsfilcnt_t;
#endif

#ifndef ST_RDONLY
#define ST_RDONLY 1
#endif
#ifndef ST_NOSUID
#define ST_NOSUID 2
#endif

 /* as defined in IEEE Std 1003.1, 2004 Edition */
struct statvfs {
 unsigned long f_bsize; /* File system block size. */
 unsigned long f_frsize; /* Fundamental file system block size. */
 fsblkcnt_t f_blocks; /* Total number of blocks on file system in */
```

```
   /* units of f_frsize. */
 fsblkcnt_t    f_bfree; /* Total number of free blocks. */
 fsblkcnt_t    f_bavail; /* Number of free blocks available to  */
   /* non-privileged process.  */
 fsfilcnt_t    f_files; /* Total number of file serial numbers. */
 fsfilcnt_t    f_ffree; /* Total number of free file serial numbers. */
 fsfilcnt_t    f_favail; /* Number of file serial numbers available to */
   /* non-privileged process. */
 unsigned long f_fsid; /*
 File system ID. */
 unsigned long f_flag; /* BBit mask of f_flag values. */
 unsigned long f_namemax;/*  Maximum filename length. */
};
#endif

#ifndef HAVE_STATVFS
int statvfs(const char *, struct statvfs *);
#endif

#ifndef HAVE_FSTATVFS
int fstatvfs(int, struct statvfs *);
#endif
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#ifndef _BSD_MISC_H
#define _BSD_MISC_H

#include "includes.h"

char *ssh_get_progname(char *);
int seed_from_prngd(unsigned char *, size_t);

#ifndef HAVE_SETSID
#define setsid() setpgrp(0, getpid())
```

```
#endif
 /* !HAVE_SETSID */

#ifndef HAVE_SETENV
int setenv(const char *, const char *, int);
#endif /* !HAVE_SETENV */

#ifndef HAVE_SETLOGIN
int setlogin(const char *);
#endif /* !HAVE_SETLOGIN */

#ifndef HAVE_INNETGR
int innetgr(const char *, const char *, const char *, const char *);
#endif /* HAVE_INNETGR */

#if !defined(HAVE_SETEUID) && defined(HAVE_SETREUID)
int seteuid(uid_t);
#endif /* !defined(HAVE_SETEUID) && defined(HAVE_SETREUID) */

#if !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID)
int setegid(uid_t);
#endif /* !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID) */

#if !defined(HAVE_STRERROR) && defined(HAVE_SYS_ERRLIST) && defined(HAVE_SYS_NERR)
const char *strerror(int);
#endif

#if !defined(HAVE_SETLINEBUF)
#define setlinebuf(a) (setvbuf((a), NULL, _IOLBF, 0))
#endif

#ifndef HAVE_UTIMES
#ifndef HAVE_STRUCT_TIMEVAL
struct timeval {
 long tv_sec;
 long tv_usec;
}
#endif /* HAVE_STRUCT_TIMEVAL */

int utimes(char *, struct timeval *);
#endif /* HAVE_UTIMES */

#ifndef AT_FDCWD
#
 define AT_FDCWD (-2)
#endif

#ifndef HAVE_FCHMODAT
```

```
int fchmodat(int, const char *, mode_t, int);
#endif

#ifndef HAVE_FCHOWNAT
int fchownat(int, const char *, uid_t, gid_t, int);
#endif

#ifndef HAVE_TRUNCATE
int truncate (const char *, off_t);
#endif /* HAVE_TRUNCATE */

#ifndef HAVE_STRUCT_TIMESPEC
struct timespec {
 time_t tv_sec;
 long tv_nsec;
};
#endif /* !HAVE_STRUCT_TIMESPEC */

#if !defined(HAVE_NANOSLEEP) && !defined(HAVE_NSLEEP)
# include <time.h>
int nanosleep(const struct timespec *, struct timespec *);
#endif

#ifndef HAVE_UTIMENSAT
# include <time.h>
/* start with the high bits and work down to minimise risk of overlap */
# ifndef AT_SYMLINK_NOFOLLOW
#  define AT_SYMLINK_NOFOLLOW 0x80000000
# endif
int utimensat(int, const char *, const struct timespec[2], int);
#endif /* !HAVE_UTIMENSAT */

#ifndef HAVE_USLEEP
int usleep(unsigned int useconds);
#endif

#ifndef HAVE_TCGETPGRP
pid_t tcgetpgrp(int);
#endif

#ifndef HAVE_TCSENDBREAK
int tcsendbreak(int, int);
#endif

#ifndef
 HAVE_UNSETENV
int unsetenv(const char *);
#endif
```

```
#ifndef HAVE_ISBLANK
int isblank(int);
#endif

#ifndef HAVE_GETPGID
pid_t getpgid(pid_t);
#endif

#ifndef HAVE_PSELECT
int pselect(int, fd_set *, fd_set *, fd_set *, const struct timespec *,
   const sigset_t *);
#endif

#ifndef HAVE_ENDGRENT
# define endgrent() do { } while(0)
#endif

#ifndef HAVE_KRB5_GET_ERROR_MESSAGE
# define krb5_get_error_message krb5_get_err_text
#endif

#ifndef HAVE_KRB5_FREE_ERROR_MESSAGE
# define krb5_free_error_message(a,b) do { } while(0)
#endif

#ifndef HAVE_PLEDGE
int pledge(const char *promises, const char *paths[]);
#endif

/* bsd-err.h */
#ifndef HAVE_ERR
void err(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_ERRX
void errx(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_WARN
void warn(const char *, ...) __attribute__((format(printf, 1, 2)));
#endif

#ifndef HAVE_LLABS
long long llabs(long long);
#endif

#if defined(HAVE_DECL_BZERO)
 && HAVE_DECL_BZERO == 0
void bzero(void *, size_t);
```

```
#endif

#ifndef HAVE_RAISE
int raise(int);
#endif

#ifndef HAVE_GETSID
pid_t getsid(pid_t);
#endif

#ifndef HAVE_FLOCK
# define LOCK_SH  0x01
# define LOCK_EX  0x02
# define LOCK_NB  0x04
# define LOCK_UN  0x08
int flock(int, int);
#endif

#ifdef FFLUSH_NULL_BUG
# define fflush(x) (_ssh_compat_fflush(x))
#endif

#ifndef HAVE_LOCALTIME_R
struct tm *localtime_r(const time_t *, struct tm *);
#endif

#ifndef HAVE_REALPATH
#define realpath(x, y) (sftp_realpath((x), (y)))
#endif

#endif /* _BSD_MISC_H */
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*/

#ifndef _BSD_SIGNAL_H
```

```
#define _BSD_SIGNAL_H

#include "includes.h"

#include <signal.h>

#ifndef _NSIG
# ifdef NSIG
#  define _NSIG NSIG
# else
#  define _NSIG 128
# endif
#endif

#if !defined(HAVE_STRSIGNAL)
char
 *strsignal(int);
#endif

#endif /* _BSD_SIGNAL_H */
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*
* Created: Sat Sep 02 12:17:00 2000 cv
*
* This file contains functions for forcing opened file descriptors to
* binary mode on Windows systems.
```

```
*/

#ifndef _BSD_CYGWIN_UTIL_H
#define _BSD_CYGWIN_UTIL_H

#ifdef HAVE_CYGWIN

#undef ERROR

/* Avoid including windows headers. */
typedef void *HANDLE;
#define INVALID_HANDLE_VALUE ((HANDLE) -1)
#define DNLEN 16
#define UNLEN 256

/* Cygwin functions for which declarations are only available when including
  windows headers, so we have to define them here explicitly. */
extern HANDLE cygwin_logon_user (const struct passwd *, const char *);
extern void cygwin_set_impersonation_token (const HANDLE);

#include
 <sys/cygwin.h>
#include <io.h>

#define CYGWIN_SSH_PRIVSEP_USER (cygwin_ssh_privsep_user())
const char *cygwin_ssh_privsep_user();

int binary_open(const char *, int , ...);
int check_ntsec(const char *);
char **fetch_windows_environment(void);
void free_windows_environment(char **);
int cygwin_ug_match_pattern_list(const char *, const char *);

#ifndef NO_BINARY_OPEN
#define open binary_open
#endif

#endif /* HAVE_CYGWIN */

#endif /* _BSD_CYGWIN_UTIL_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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*/

/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

#include <sys/types.h>
#ifdef HAVE_POLL_H
# include <poll.h>
#elif HAVE_SYS_POLL_H
# include <sys/poll.h>
#endif

#ifndef HAVE_STRUCT_POLLFD_FD
typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;

#define POLLIN  0x0001
#define POLLPRI  0x0002
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLRDNORM 0x0040
```

```
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define
 INFTIM  (-1) /* not standard */
#endif /* !HAVE_STRUCT_POLLFD_FD */

#ifndef HAVE_NFDS_T
typedef unsigned int nfds_t;
#endif

#ifndef HAVE_POLL
int   poll(struct pollfd *, nfds_t, int);
#endif

#ifndef HAVE_PPOLL
int   ppoll(struct pollfd *, nfds_t, const struct timespec *, const sigset_t *);
#endif

#endif /* !_COMPAT_POLL_H_ */
/*
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*
*/
```

```
#ifndef _NEXT_POSIX_H
#define _NEXT_POSIX_H

#ifdef HAVE_NEXT
#include <sys/dir.h>

/* NGROUPS_MAX is behind -lposix.  Use the BSD version which is NGROUPS */
#undef NGROUPS_MAX
#define NGROUPS_MAX NGROUPS

/* NeXT's readdir() is BSD (struct direct) not POSIX (struct dirent) */
#define dirent direct

/* Swap out NeXT's BSD wait() for a more POSIX compliant one */
pid_t posix_wait(int *);
#define wait(a) posix_wait(a)

/* #ifdef wrapped functions that need defining for clean compiling */
pid_t getppid(void);
void vhangup(void);
int innetgr(const char *, const char *, const char *, const char *);

/* TERMCAP */
int tcgetattr(int, struct termios *);
int tcsetattr(int, int,
 const struct termios *);
int tcsetpgrp(int, pid_t);
speed_t cfgetospeed(const struct termios *);
speed_t cfgetispeed(const struct termios *);
int cfsetospeed(struct termios *, int);
int cfsetispeed(struct termios *, int);
#endif /* HAVE_NEXT */
#endif /* _NEXT_POSIX_H */
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```

```
*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.5584 libubsan1 12.3.0-1ubuntu1~22.04.2

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   Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
   02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this.  These are
   used as arguments to the function __VLTChangePermission, declared
   below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
```

```
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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  License along with this program; if not, write to the Free Software
  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

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/* Definitions for BSD assembler syntax for Intel 386
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<http://www.gnu.org/licenses/>. */

/* Use the Sequent Symmetry assembler syntax. */

/* Define the syntax of pseudo-ops, labels and comments. */

/* Prefix for internally generated assembler
labels. If we aren't using
underscores, we are using prefix `.'s to identify labels that should

```
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif
```

```
/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
```

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
```

```
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     12_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>

   <!-- homepage tab menu -->

   <div id="tabmenu">
     <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
     </ul>
```

```
  </div>
 </div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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1.5585 python3-tz 2022.1-1ubuntu0.22.04.1

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1.5586 python3-wheel 0.37.1-2ubuntu0.22.04.1

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1.5587 g++-11 11.4.0-1ubuntu1~22.04.2

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  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
```

```
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

DRuntime: Runtime Library for the D Programming Language
==========

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   02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
   difficult for the compiler to generate a call to this.  These are
   used as arguments to the function __VLTChangePermission, declared
   below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
```

```
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
```

```
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
```

```
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>

```
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>

   <!-- homepage tab menu -->

   <div id="tabmenu">
     <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
```

```
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
     </ul>
   </div>
 </div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D		libphobos-11-dev		

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-11-base	Base files common to all compilers
gcc-11-soft-float	Software floating point (ARM only)
gcc-11-source	The sources with patches

Ada:

libgnat-util11-dev, libgnat-util11	GNAT version library

C:

cpp-11, cpp-11-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
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* Cygnus Support, drepper@cygnus.com.

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D:

gdc-11	GNU D Compiler
libphobos-11-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
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1.5588 python3-jinja2 3.0.3-1ubuntu0.4

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1.5589 gcc-11-base 11.4.0-1ubuntu1~22.04.2

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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02110-1301, USA. */

```
#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this. These are
```

```
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

DRuntime: Runtime Library for the D Programming Language
==========

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  02110-1301, USA. */

#ifndef __VTV_H__

```
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
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  adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
```

```
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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02110-1301, USA. */

```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>
```

```
<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

```
ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/           (for prereleases)
ftp://sourceware.org/pub/newlib/     (for newlib)
git://git.savannah.gnu.org/gm2.git   (for Modula-2)
```

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D		libphobos-11-dev		

Additional packages include:

All languages:

libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
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D:
gdc-11 GNU D Compiler
libphobos-11-dev D standard runtime library

The D source package is made up of the following components.

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- d/*

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The DMD Compiler implementation of the D programming language:
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The Zlib data compression library:
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The Phobos standard runtime library:
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Version 3.1, 31 March 2009

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1.5591 libgomp 12.3.0-1ubuntu1~22.04.2

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
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libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)

ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-12 source package is taken from the git gcc-12-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-12	libgnat-12	gnat-12-doc
C	gcc-12		gcc-12-doc
C++	g++-12	libstdc++6	libstdc++6-12-doc
D	gdc-12		
Fortran 95	gfortran-12	libgfortran5	gfortran-12-doc
Go	gccgo-12	libgo0	
Objective C	gobjc-12	libobjc4	
Objective C++	gobjc++-12		
Modula-2	gm2-12	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-12-dbg	libstdc++6-12-pic
D	libphobos-12-dev			

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-12-base
Base files common to all compilers
gcc-12-soft-float Software floating point (ARM only)
gcc-12-source The sources with patches

Ada:
libgnat-util12-dev, libgnat-util12 GNAT version library

C:
cpp-12, cpp-12-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type

fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
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D:

gdc-12	GNU D Compiler
libphobos-12-dev	D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many

libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the
same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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The ``Library'', below, refers to any such software library or work which has been distributed under these terms.  A ``work based on the Library'' means either the Library or any derivative work under

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either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification".)

``Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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@enumerate a
@item
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@item
You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

@item
You must
 cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
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on the Library, the distribution of the whole must be on the terms of
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entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
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that version instead if you wish.) Do not make any other change in
these notices.

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that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

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You may copy and distribute the Library (or a portion or
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under the terms of Sections 1 and
2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The

threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise,
if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of
this License. Also, you must do one
of these things:

@enumerate a
@item
Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A

suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

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Library'' must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
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normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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@item
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library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
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based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.
@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1987 James A. Woods ames!jaw
1993 Christopher Seiwald seiwald@vix.com
2000, 2002 Christopher Seiwald <seiwald@perforce.com>
2010 Steve Bennett <steveb@workware.net.au>
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#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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* Regular
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2000, 2002 Christopher Seiwald <seiwald@perforce.com>
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in new free programs; and that you are informed that you can do these
things.

To protect your rights, we need to make restrictions that forbid
distributors to deny you these rights or to ask you to surrender these
rights. These restrictions translate to certain responsibilities for
you if you distribute copies of the library
or if you modify it.

For example, if you distribute copies of the library, whether gratis
or for a fee, you must give the recipients all the rights that we gave
you. You must make sure that they, too, receive or can get the source
code. If you link other code with the library, you must provide
complete object files to the recipients, so that they can relink them
with the library after making changes to the library and recompiling
it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the
library, and (2) we offer you this license, which gives you legal
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To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the @dfn{Lesser} General Public License because it does @emph{Less} to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a ``work based on the library'' and a ``work that uses the library''. The former
contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A ``library'' means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The ``Library'', below, refers to any such software library or work which has been distributed under these terms. A ``work based on the Library'' means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it,
either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term ``modification''.)

``Source code'' for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not
covered by this License; they are outside its scope. The act of
running a program using the Library is not restricted, and output from
such a program is covered only if its contents constitute a work based
on the Library (independent of the use of the Library in a tool for
writing it). Whether that is true depends on what the Library does
and what the program that uses the Library does.

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You may modify your copy or copies of the Library or any portion
of it, thus forming a work based on the Library, and copy and
distribute such modifications or work under the terms of Section 1
above, provided that you also meet all of these conditions:

@enumerate a
@item
The modified work must itself be a software library.

@item
You must cause the files modified to carry prominent notices
stating that you changed the files and the date of any change.

@item
You must
cause the whole of the work to be licensed at no
charge to all third parties under the terms of this License.

@item
If a facility in the modified Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)
@end enumerate

These requirements apply to the modified work as a whole. If
identifiable sections
of that work are not derived from the Library,
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on the Library, the distribution of the whole must be on the terms of
this License, whose permissions for other licensees extend to the
entire whole, and thus to each and every part regardless of who wrote
it.

Thus, it is not the intent of this section to claim rights or contest
your rights to work written entirely by you; rather, the intent is to
exercise the right to control the distribution of derivative or
collective works based on the Library.

In addition, mere aggregation of another work not based on the Library
with the Library (or with a work based on the Library) on a volume of
a storage or distribution medium does not bring the other work under
the scope of this
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You may opt to apply the terms of the ordinary GNU General Public
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that they refer to the ordinary GNU General Public License, version 2,
instead of to this License. (If a newer version than version 2 of the
ordinary GNU General Public License has appeared, then you can specify
that version instead if you wish.) Do not make any other change in
these notices.

Once this change is made in a given copy, it is irreversible for
that copy, so the ordinary GNU General Public License applies to all
subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

@item
You may copy and distribute the Library (or a portion or
derivative of it, under Section 2) in object code or executable form
under the terms of Sections 1 and
2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

If distribution of object code is made by offering access to copy
from a designated place, then offering equivalent access to copy the
source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
compelled to copy the source along with the object code.

@item
A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a ``work that uses the Library''. Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a ``work that uses the Library'' with the Library
creates an executable that is a derivative of the Library (because
it
contains portions of the Library), rather than a ``work that uses the
library''. The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a ``work that uses the Library'' uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.

Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

@item
As an exception to the Sections above, you may also combine or
link a ``work that uses the Library'' with the Library to produce a
work containing portions of the Library, and distribute that work
under terms of your choice, provided that the terms permit
modification of the work for the customer's own use and reverse
engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the
Library is used in it and that the Library and its use are covered by
this License. You must supply a copy of this License. If the work
during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of
this License. Also, you must do one
of these things:

@enumerate a
@item
Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

@item
Use a suitable shared library mechanism for linking with the Library. A
suitable mechanism is one that (1) uses at run time a copy of the
library already present on the user's computer system, rather than
copying library functions into the executable,
and (2) will operate
properly with a modified version of the library, if the user installs
one, as long as the modified version is interface-compatible with the
version that the work was made with.

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

@item
If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

@item
Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
@end enumerate

For an executable, the required form of the ``work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that
is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

@item
You may place library facilities that are a work based on the
Library side-by-side in a single library together with other library
facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

@enumerate a
@item
Accompany the combined library with a copy of the same work
based on the Library,
uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

@item
Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
where to find the accompanying uncombined form of the same work.

@end enumerate

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@end enumerate

@subheading END OF TERMS AND CONDITIONS

@page
@subheading How to Apply These Terms to Your New Libraries

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@end
smallexample

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@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.

c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.

In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of

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a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,

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c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified
Library refers to a function or a
table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility
is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must
be optional: if the application does not supply it, the square
root function must still compute square roots.)

These requirements apply to the modified work as a whole. If
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entire whole, and thus to each and every part regardless of who wrote
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Thus, it is not the intent of this section to claim rights or contest
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be
distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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1.5605 cpp 11.4.0-1ubuntu1~22.04.2

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary

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entire combination fits its criteria of freedom. The Lesser General
Public License permits more lax criteria for linking other code with
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We call this license the "Lesser" General Public License because it
does Less to protect the user's freedom than the ordinary General
Public License. It also provides other free software developers Less
of an advantage over competing non-free programs. These disadvantages
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libraries. However, the Lesser license provides advantages in certain
special circumstances.

For example, on rare occasions, there may be a special need to
encourage the widest possible use of a certain library, so that it
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library does the same job as widely used non-free libraries. In this
case, there is little to gain by limiting the
free library to free
software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free
programs enables a greater number of people to use a large body of
free software. For example, permission to use the GNU C Library in
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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding
machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly

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#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif
```

#endif /* __VTV_H__ */
DRuntime: Runtime Library for the D Programming Language
==========

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#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
```

```
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
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/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
```

```
/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
   to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
   to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
   to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label
  where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'.  */
```

```
#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
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If the program does terminal interaction, make it output a short
notice like this when it starts in an interactive mode:

@smallexample
@var{program} Copyright (C) @var{year} @var{name of author}
This program comes with ABSOLUTELY NO WARRANTY;
for details type @samp{show w}.
This is free software, and you are welcome to redistribute it
under certain conditions; type @samp{show c} for details.
@end smallexample

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the appropriate parts of the General Public License. Of course, your
program's commands might be different; for a GUI interface, you would
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<!-- Creator : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">

```
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>

 <div id="header">
   <h1>
     <span style="display:inline-block; vertical-align:middle">
 <img
 src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
     </span>
     <span style="display:inline-block; vertical-align:middle; font-size: 50px">
 GNU Modula-2
     </span>
   </h1>

   <!-- homepage tab menu -->

   <div id="tabmenu">
     <ul id="tab">
 <li><a href="about.html"><span>About</span></a></li>
 <li><a href="download.html"><span>Download</span></a></li>
 <li><a href="release.html"><span>Latest Release</span></a></li>
 <li class="selected"><a href="license.html"><span>License</span></a></li>
 <li><a href="platforms.html"><span>Platforms</span></a></li>
 <li><a href="users.html"><span>Users</span></a></li>
```

```
    </ul>
   </div>
 </div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada			
	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D		libphobos-11-dev		

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-11-base	Base files common to all compilers
gcc-11-soft-float	Software floating point (ARM only)
gcc-11-source	The sources with patches

Ada:

libgnat-util11-dev, libgnat-util11	GNAT version library

C:

cpp-11, cpp-11-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some

libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp

- libitm
- libssp
- libstdc++-v3
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* Cygnus Support, drepper@cygnus.com.

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D:
gdc-11 GNU D Compiler
libphobos-11-dev D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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The Zlib data compression library:
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1.5606 libfreetype 2.11.1+dfsg-1ubuntu0.3

1.5606.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
/***************************************************************************
*
*  grbatch.c  Batch processing driver.
*
*  This driver maintains the image in memory without displaying it,
*  used by the graphics utility of the FreeType test suite.
*
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*
***************************************************************************/
```

Found in path(s):
* /freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/batch/grbatch.c
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/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/beos/grbeos.cpp/**********
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/grswizzle.c#include <stdlib.h>
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/mac/grmac.c/**********
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/meson.build#
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/win32/grwin32.c/**********
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/win32/grwin32.h/**********
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/x11/grx11.c/**********
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/graph/x11/grx11.h/**********
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/mac/codewarrior/ftlint.prj
mtsl/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/mac/codewarrior/ftview.prj mtsl/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/mac/codewarrior/ftview.prj
mtsl/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/mac/getargv.c/**********
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/meson.build#
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/src/ftinspect/maingui.cpp//
maingui.cpp
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/src/ftinspect/meson.build#
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/src/md5.c/*
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/src/md5.h/*
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/src/mlgetopt.c/*
/opt/cola/permits/2651515278_1759162120.4791622/0/freetype-2-11-1-dfsg-orig-ft2demos-tar-xz/ft2demos-2.11.1/src/mlgetopt.h/*

Found
in path(s):
*

1.5607 libasan6 11.4.0-1ubuntu1~22.04.2

1.5607.1 Available under license :

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

DRuntime: Runtime Library for the D Programming Language
==========

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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<http://www.gnu.org/licenses/>.  */

/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */
```

```
/* This says how to output an assembler line
   to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
   to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
   to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label
  where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
```

#define DBX_CONTIN_LENGTH 0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
```

```
    11_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
web site.</p>
</div>
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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		

Modula-2 gm2-11 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-11-dbg	libstdc++6-11-pic	
D	libphobos-11-dev			

Additional packages include:

All languages:

libgcc1, libgcc2, libgcc4	GCC intrinsics (platform-dependent)
gcc-11-base	Base files common to all compilers
gcc-11-soft-float	Software floating point (ARM only)
gcc-11-source	The sources with patches

Ada:

libgnat-util11-dev, libgnat-util11	GNAT version library

C:

cpp-11, cpp-11-doc	GNU C Preprocessor
libssp0-dev, libssp0	GCC stack smashing protection library
libquadmath0	Math routines for the __float128 type
fixincludes	Fix non-ANSI header files

C, C++ and Fortran 95:

libgomp1-dev, libgomp1	GCC OpenMP (GOMP) support library
libitm1-dev, libitm1	GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
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- libitm
- libssp
- libstdc++-v3
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D:

gdc-11	GNU D Compiler
libphobos-11-dev	D standard runtime library

The D source package is made up of the following components.

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The Phobos standard runtime library:
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  iconv (Charset Conversion Library) v2.0

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1.5608 libxdata 2:1.7.5-1ubuntu0.3

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```
#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

DRuntime: Runtime Library for the D Programming Language
==========

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  used as arguments to the function __VLTChangePermission, declared
  below.  */
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#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



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<http://www.gnu.org/licenses/>.  */

/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
```

```
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
```

```
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
  <p>The compiler is held under the GNU Public Licence v3.</p>
  <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
    licences can be found on the
    <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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```
ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
svn://gcc.gnu.org/svn/gcc/           (for prereleases)
ftp://sourceware.org/pub/newlib/     (for newlib)
git://git.savannah.gnu.org/gm2.git   (for Modula-2)
```

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent

C++ libstdc++6-11-dbg libstdc++6-11-pic
D libphobos-11-dev

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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  gcc/tsystem.h, gcc/typeclass.h).
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- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-11 Ada support library and libgnat-util11
 library.
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D:

gdc-11	GNU D Compiler
libphobos-11-dev	D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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The DMD Compiler implementation of the D programming language:
- d/dmd/*

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
DRuntime: Runtime Library for the D Programming Language
=======================================================
```

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  Foundation, Inc., 51 Franklin Street - Fifth Floor, Boston, MA
  02110-1301, USA.  */


#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif
```

```
#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
   #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
   that says to advance the location counter by SIZE bytes.  */
```

```
#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
   to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
   to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
   that says to advance the location counter
   to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
   the symbol_ref name of an internal numbered label
  where
   PREFIX is the class of label and NUM is the number within the class.
   This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
    sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */
```

```
#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

```
<ul id="overview">
  <li class="home">
    HOME_HREF
  </li>
  <li class="release">
    11_HREF
  </li>

  <li>
    <a href="news.html" title="News">News</a>
  </li>
  <li>
    <a href="development.html" title="Development">Development</a>
  </li>
  <li>
    <a href="community.html" title="Community">Community</a>
  </li>
</ul>

<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
  <h2>The home of the GNU Modula-2 compiler</h2>
```

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</body>
</html>

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
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libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language,
library, and documentation as follows:

Language Compiler package Library package Documentation

Ada

gnat-11 libgnat-11 gnat-11-doc
BRIG gccbrig-11 libhsail-rt0
C gcc-11 gcc-11-doc
C++ g++-11 libstdc++6 libstdc++6-11-doc
D gdc-11
Fortran 95 gfortran-11 libgfortran5 gfortran-11-doc
Go gccgo-11 libgo0
Objective C gobjc-11 libobjc4
Objective C++ gobjc++-11
Modula-2 gm2-11 libgm2

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++		libstdc++6-11-dbg	libstdc++6-11-pic	
D	libphobos-11-dev			

Additional packages include:

All languages:
libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can

also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3

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- Various config files in gcc/config/ used in runtime libraries.
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D:
gdc-11 GNU D Compiler
libphobos-11-dev D standard runtime library

The D source package is made up of the following components.

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- d/*

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The DMD Compiler implementation of the D programming language:
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The Zlib data compression library:
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The Phobos standard runtime library:
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iconv (Charset Conversion Library) v2.0

(27) Artem Bityuckiy (--enable-newlib-iconv)

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the

source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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5. A program that contains no derivative of any portion of the
Library, but is designed to work with the Library by being compiled or
linked with it, is called a "work that uses the Library". Such a
work, in isolation, is not a derivative work of the Library, and
therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library
creates an executable that is a derivative of the Library (because it
contains portions of the Library), rather than a "work that uses
the
library". The executable is therefore covered by this License.
Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may
distribute the object
code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves,
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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02110-1301, USA. */

```
#ifndef __VTV_H__
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this. These are
```

```
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
```

DRuntime: Runtime Library for the D Programming Language
==========

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  02110-1301, USA. */

#ifndef __VTV_H__

```
#define __VTV_H__

/* We could have used an enumeration here but it just makes it more
  difficult for the compiler to generate a call to this.  These are
  used as arguments to the function __VLTChangePermission, declared
  below.  */
#define __VLTP_READ_ONLY  0
#define __VLTP_READ_WRITE 1

#ifdef __cplusplus
extern "C" void __VLTChangePermission (int);
#else
extern void __VLTChangePermission (int);
#endif

#ifdef BIG_PAGE_SIZE
/* TODO - Replace '4096' below with correct big page size.  */
#define VTV_PAGE_SIZE 4096
#else
#if defined(__sun__) && defined(__svr4__) && defined(__sparc__)
#define VTV_PAGE_SIZE 8192
#else
#define VTV_PAGE_SIZE 4096
#endif
#endif



#endif /* __VTV_H__ */
/* Definitions for BSD assembler syntax for Intel 386
  (actually AT&T syntax for insns and operands,
  adapted to BSD conventions for symbol names and debugging.)
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```

```
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/* Use the Sequent Symmetry assembler syntax.  */

/* Define the syntax of pseudo-ops, labels and comments.  */

/* Prefix for internally generated assembler
 labels.  If we aren't using
  underscores, we are using prefix `.'s to identify labels that should
  be ignored, as in `i386/gas.h' --karl@cs.umb.edu  */

#define LPREFIX "L"

/* Assembler pseudos to introduce constants of various size.  */

#define ASM_BYTE "\t.byte\t"
#define ASM_SHORT "\t.word\t"
#define ASM_LONG "\t.long\t"
#define ASM_QUAD "\t.quad\t"  /* Should not be used for 32bit compilation.  */

/* This was suggested, but it shouldn't be right for DBX output. -- RMS
  #define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */


/* Define the syntax of labels and symbol definitions/declarations.  */

/* This is how to output an assembler line
  that says to advance the location counter by SIZE bytes.  */

#define ASM_OUTPUT_SKIP(FILE,SIZE)  \
 fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations.  */

/* This says how to output an assembler line
  to define a global common symbol.  */

#define
 ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".comm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
  to define a local common symbol.  */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED)  \
( fputs (".lcomm ", (FILE)),   \
```

```
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT)  \
( fputs (".lcomm ", (FILE)),   \
 assemble_name ((FILE), (NAME)),  \
 fprintf ((FILE), ",%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
  that says to advance the location counter
  to a multiple of 2**LOG bytes.  */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
 if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
  the symbol_ref name of an internal numbered label
 where
  PREFIX is the class of label and NUM is the number within the class.
  This is suitable for output with `assemble_name'.  */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
   sprintf ((BUF), "*%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols.  */

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols.  */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations.  */
#define DBX_CONTIN_LENGTH 0
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```
<!-- Creator     : groff version 1.20.1 -->
<!-- CreationDate: Fri Jan 14 19:57:50 2011 -->
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
<head>
<meta name="generator" content="groff -Thtml, see www.gnu.org">
<meta http-equiv="Content-Type" content="text/html; charset=US-ASCII">
<meta name="Content-Style" content="text/css">
<link rel="stylesheet" type="text/css" href="texi2tr.css" />
<title>GNU Modula-2</title>
</head>

<body>
 <!-- site wide top running header menu -->

 <ul id="overview">
   <li class="home">
     HOME_HREF
   </li>
   <li class="release">
     11_HREF
   </li>

   <li>
     <a href="news.html" title="News">News</a>
   </li>
   <li>
     <a href="development.html" title="Development">Development</a>
   </li>
   <li>
     <a href="community.html" title="Community">Community</a>
   </li>
 </ul>
```

```
<div id="header">
  <h1>
    <span style="display:inline-block; vertical-align:middle">
<img
src="200px-Heckert_GNU_white.png" alt="Heckert_GNU_white.png">
    </span>
    <span style="display:inline-block; vertical-align:middle; font-size: 50px">
GNU Modula-2
    </span>
  </h1>

  <!-- homepage tab menu -->

  <div id="tabmenu">
    <ul id="tab">
<li><a href="about.html"><span>About</span></a></li>
<li><a href="download.html"><span>Download</span></a></li>
<li><a href="release.html"><span>Latest Release</span></a></li>
<li class="selected"><a href="license.html"><span>License</span></a></li>
<li><a href="platforms.html"><span>Platforms</span></a></li>
<li><a href="users.html"><span>Users</span></a></li>
    </ul>
  </div>
</div>

<div id="page">
 <div class="plain">
   <h2>The home of the GNU Modula-2 compiler</h2>
   <p>The compiler is held under the GNU Public Licence v3.</p>
   <p>The ISO and PIM libraries are under the GPL v3.1 with GCC runtime extensions.  Copies of the
     licences can be found on the
     <a href="http://www.gnu.org/licenses">GNU</a>
 web site.</p>
 </div>
</div>
</body>
</html>
```

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```
 ftp://gcc.gnu.org/pub/gcc/releases/  (for full releases)
 svn://gcc.gnu.org/svn/gcc/           (for prereleases)
 ftp://sourceware.org/pub/newlib/     (for newlib)
 git://git.savannah.gnu.org/gm2.git   (for Modula-2)
```

The current gcc-11 source package is taken from the SVN gcc-11-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

Language	Compiler package	Library package	Documentation
Ada	gnat-11	libgnat-11	gnat-11-doc
BRIG	gccbrig-11	libhsail-rt0	
C	gcc-11		gcc-11-doc
C++	g++-11	libstdc++6	libstdc++6-11-doc
D	gdc-11		
Fortran 95	gfortran-11	libgfortran5	gfortran-11-doc
Go	gccgo-11	libgo0	
Objective C	gobjc-11	libobjc4	
Objective C++	gobjc++-11		
Modula-2	gm2-11	libgm2	

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

Language	Sources	Development	Debugging	Position-Independent
C++			libstdc++6-11-dbg	libstdc++6-11-pic
D	libphobos-11-dev			

Additional packages include:

All languages:

libgcc1,
libgcc2, libgcc4 GCC intrinsics (platform-dependent)
gcc-11-base Base files common to all compilers
gcc-11-soft-float Software floating point (ARM only)
gcc-11-source The sources with patches

Ada:
libgnat-util11-dev, libgnat-util11 GNAT version library

C:
cpp-11, cpp-11-doc GNU C Preprocessor
libssp0-dev, libssp0 GCC stack smashing protection library
libquadmath0 Math routines for the __float128 type
fixincludes Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1 GCC OpenMP (GOMP) support library
libitm1-dev, libitm1 GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can
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- libitm
- libssp
- libstdc++-v3
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Written by Tobias Burnus <burnus@net-b.de>

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D:
gdc-11 GNU D Compiler
libphobos-11-dev D standard runtime library

The D source package is made up of the following components.

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The DMD Compiler implementation of the D programming language:
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iconv (Charset Conversion Library) v2.0

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)

0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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1.5620 libglib 2.72.4-0ubuntu2.6

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1.5623 libpython3.10-stdlib 3.10.12-1~22.04.11

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.5625 libinih1 53-1ubuntu3

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// OtherLicense is an Other License Information section of an
// SPDX Document for version 2.2 of the spec.
type OtherLicense struct {
 // 10.1: License Identifier: "LicenseRef-[idstring]"
 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 10.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
```

```
ExtractedText string `json:"extractedText"`

// 10.3: License Name: single line of text or "NOASSERTION"
// Cardinality: conditional (mandatory, one) if license is not
//             on SPDX License List
LicenseName string `json:"name,omitempty"`

// 10.4: License Cross Reference
// Cardinality: conditional (optional, one or many) if license
//             is not on SPDX License List
LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

//
10.5: License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseIdentifier string `json:"licenseId"`

 // 6.2: Extracted Text
 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

 // 6.3: License Name: single line of text or "NOASSERTION"
 // Cardinality: conditional (mandatory, one) if license is not
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 LicenseName string `json:"name,omitempty"`

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 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`
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// 6.5:
License Comment
// Cardinality: optional, one
LicenseComment string `json:"comment,omitempty"`
}
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 // Cardinality: conditional (mandatory, one) if there is a
 //              License Identifier assigned
 ExtractedText string `json:"extractedText"`

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 // Cardinality: conditional (mandatory, one) if license is not
 //              on SPDX License List
 LicenseName string `json:"name,omitempty"`

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 // Cardinality: conditional (optional, one or many) if license
 //              is not on SPDX License List
 LicenseCrossReferences []string `json:"seeAlsos,omitempty"`

 // 10.5: License Comment
 // Cardinality:
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 LicenseComment string `json:"comment,omitempty"`
}
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localtime.go, localtime_test.go:

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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.5635 eject 2.37.2-4ubuntu3.4

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```
NR START   END SECTORS SIZE NAME UUID
1    32  7679    7648 3.7M      8f8378c0-01
2  7680 16383    8704 4.3M      8f8378c0-02
5  7936 12799    4864 2.4M
6 12544 16127    3584 1.8M
```

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```
#ifndef UTIL_LINUX_PT_BSD_H
#define UTIL_LINUX_PT_BSD_H

#define BSD_MAXPARTITIONS 16
#define BSD_FS_UNUSED  0

#ifndef BSD_DISKMAGIC
# define BSD_DISKMAGIC     ((uint32_t) 0x82564557)
#endif

#define BSD_LINUX_BOOTDIR "/usr/ucb/mdec"

#if defined (__alpha__) || defined (__powerpc__) || \
   defined (__ia64__) || defined (__hppa__)
# define BSD_LABELSECTOR   0
# define BSD_LABELOFFSET   64
#else
# define BSD_LABELSECTOR   1
# define BSD_LABELOFFSET   0
#endif

#define BSD_BBSIZE        8192  /* size of boot area, with label */
#define BSD_SBSIZE        8192  /* max size of fs superblock */
```

```
struct bsd_disklabel {
 uint32_t d_magic;  /* the magic number */
 int16_t  d_type;   /* drive type */
 int16_t  d_subtype;  /* controller/d_type specific */
 char  d_typename[16];  /* type name, e.g. "eagle" */
 char  d_packname[16];  /* pack identifier */

   /* disk geometry: */
 uint32_t d_secsize;  /* # of bytes per sector */
 uint32_t d_nsectors;  /* # of data sectors per track */
 uint32_t d_ntracks;  /*
 # of tracks per cylinder */
 uint32_t d_ncylinders;  /* # of data cylinders per unit */
 uint32_t d_secpercyl;  /* # of data sectors per cylinder */
 uint32_t d_secperunit;  /* # of data sectors per unit */

 /*
  * Spares (bad sector replacements) below
  * are not counted in d_nsectors or d_secpercyl.
  * Spare sectors are assumed to be physical sectors
  * which occupy space at the end of each track and/or cylinder.
  */
 uint16_t d_sparespertrack; /* # of spare sectors per track */
 uint16_t d_sparespercyl;  /* # of spare sectors per cylinder */

 /*
  * Alternate cylinders include maintenance, replacement,
  * configuration description areas, etc.
  */
 uint32_t d_acylinders;  /* # of alt. cylinders per unit */

   /* hardware characteristics: */
 /*
  * d_interleave, d_trackskew and d_cylskew describe perturbations
  * in the media format used to compensate for a slow controller.
  * Interleave is physical sector interleave, set up by the formatter
  * or controller
 when formatting.  When interleaving is in use,
  * logically adjacent sectors are not physically contiguous,
  * but instead are separated by some number of sectors.
  * It is specified as the ratio of physical sectors traversed
  * per logical sector.  Thus an interleave of 1:1 implies contiguous
  * layout, while 2:1 implies that logical sector 0 is separated
  * by one sector from logical sector 1.
  * d_trackskew is the offset of sector 0 on track N
  * relative to sector 0 on track N-1 on the same cylinder.
  * Finally, d_cylskew is the offset of sector 0 on cylinder N
```

```
 * relative to sector 0 on cylinder N-1.
 */
uint16_t d_rpm;   /* rotational speed */
uint16_t d_interleave;  /* hardware sector interleave */
uint16_t d_trackskew;  /* sector 0 skew, per track */
uint16_t d_cylskew;  /* sector 0 skew, per cylinder */
uint32_t d_headswitch;  /* head switch time, usec */
uint32_t d_trkseek;  /* track-to-track seek, usec */
uint32_t d_flags;  /* generic flags */
uint32_t d_drivedata[5];  /*
drive-type specific information */
uint32_t d_spare[5];  /* reserved for future use */
uint32_t d_magic2;  /* the magic number (again) */
uint16_t d_checksum;  /* xor of data incl. partitions */

  /* filesystem and partition information: */
uint16_t d_npartitions;        /* number of partitions in following */
uint32_t d_bbsize;        /* size of boot area at sn0, bytes */
uint32_t d_sbsize;        /* max size of fs superblock, bytes */

struct bsd_partition  {  /* the partition table */
 uint32_t p_size;        /* number of sectors in partition */
 uint32_t p_offset;       /* starting sector */
 uint32_t p_fsize;        /* filesystem basic fragment size */
 uint8_t  p_fstype; /* filesystem type, see below */
 uint8_t  p_frag;  /* filesystem fragments per block */
 uint16_t p_cpg;        /* filesystem cylinders per group */
} __attribute__((packed)) d_partitions[BSD_MAXPARTITIONS]; /* actually may be more */
} __attribute__((packed));


/* d_type values:
 */
#define BSD_DTYPE_SMD  1  /* SMD, XSMD; VAX hp/up */
#define BSD_DTYPE_MSCP  2  /* MSCP */
#define BSD_DTYPE_DEC  3  /* other DEC (rk, rl) */
#define BSD_DTYPE_SCSI  4  /* SCSI */
#define BSD_DTYPE_ESDI  5  /* ESDI interface */
#define BSD_DTYPE_ST506  6  /* ST506 etc. */
#define BSD_DTYPE_HPIB  7  /* CS/80 on HP-IB */
#define BSD_DTYPE_HPFL  8  /* HP Fiber-link */
#define BSD_DTYPE_FLOPPY 10  /* floppy */

/* d_subtype values: */
#define BSD_DSTYPE_INDOSPART 0x8  /* is inside dos partition */
#define BSD_DSTYPE_DOSPART(s) ((s) & 3) /* dos partition number */
#define BSD_DSTYPE_GEOMETRY 0x10  /* drive params in label */
```

```
/*
* Filesystem type and version.
* Used to interpret other filesystem-specific
* per-partition information.
*/
#define BSD_FS_UNUSED 0  /* unused */
#define BSD_FS_SWAP     1  /* swap */
#define BSD_FS_V6       2  /* Sixth Edition */
#define BSD_FS_V7       3  /* Seventh Edition */
#define BSD_FS_SYSV     4  /* System V */
#define BSD_FS_V71K     5  /* V7
 with 1K blocks (4.1, 2.9) */
#define BSD_FS_V8       6  /* Eighth Edition, 4K blocks */
#define BSD_FS_BSDFFS 7  /* 4.2BSD fast file system */
#define BSD_FS_BSDLFS 9  /* 4.4BSD log-structured file system */
#define BSD_FS_OTHER 10  /* in use, but unknown/unsupported */
#define BSD_FS_HPFS 11  /* OS/2 high-performance file system */
#define BSD_FS_ISO9660 12  /* ISO-9660 filesystem (cdrom) */
#define BSD_FS_ISOFS BSD_FS_ISO9660
#define BSD_FS_BOOT 13  /* partition contains bootstrap */
#define BSD_FS_ADOS 14  /* AmigaDOS fast file system */
#define BSD_FS_HFS 15  /* Macintosh HFS */
#define BSD_FS_ADVFS 16  /* Digital Unix AdvFS */

/* this is annoying, but it's also the way it is :-( */
#ifdef __alpha__
#define BSD_FS_EXT2 8  /* ext2 file system */
#else
#define BSD_FS_MSDOS 8  /* MS-DOS file system */
#endif

/*
* flags shared by various drives:
*/
#define BSD_D_REMOVABLE 0x01  /* removable media */
#define BSD_D_ECC       0x02  /* supports ECC */
#define BSD_D_BADSECT 0x04  /* supports
 bad sector forw. */
#define BSD_D_RAMDISK 0x08  /* disk emulator */
#define BSD_D_CHAIN     0x10  /* can do back-back transfers */
#define BSD_D_DOSPART 0x20  /* within MSDOS partition */

#endif /* UTIL_LINUX_PT_BSD_H */
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1.5636 python3-idna 3.3-1ubuntu0.1

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1.5637 python-gi 3.42.1-0ubuntu1

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1.5638 libcurl 7.81.0-1ubuntu1.21

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1.5639 openssh-sftp-server 1:8.9p1-3ubuntu0.13

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*
*/

#ifndef _BSD_WAITPID_H
#define _BSD_WAITPID_H

#ifndef HAVE_WAITPID
```

```
/* Clean out any potential issues */
#undef WIFEXITED
#undef WIFSTOPPED
#undef WIFSIGNALED

/* Define required functions to mimic a POSIX look and feel */
#define _W_INT(w) (*(int*)&(w)) /* convert union wait to int */
#define WIFEXITED(w) (!((_W_INT(w)) & 0377))
#define WIFSTOPPED(w) ((_W_INT(w)) & 0100)
#define WIFSIGNALED(w) (!WIFEXITED(w) && !WIFSTOPPED(w))
#define WEXITSTATUS(w) (int)(WIFEXITED(w) ? ((_W_INT(w) >> 8) & 0377) : -1)
#define WTERMSIG(w) (int)(WIFSIGNALED(w) ? (_W_INT(w) & 0177) : -1)
#define WCOREFLAG 0x80
#define WCOREDUMP(w) ((_W_INT(w)) & WCOREFLAG)

/* Prototype */
pid_t waitpid(int,
 int *, int);

#endif /* !HAVE_WAITPID */
#endif /* _BSD_WAITPID_H */
```

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```
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 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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------
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#include "includes.h"

#if !defined(HAVE_STATVFS) || !defined(HAVE_FSTATVFS)

#include <sys/types.h>

#ifdef HAVE_SYS_MOUNT_H
#include <sys/mount.h>
```

```
#endif
#ifdef HAVE_SYS_STATFS_H
#include <sys/statfs.h>
#endif
#ifdef
 HAVE_SYS_VFS_H
#include <sys/vfs.h>
#endif

#ifndef HAVE_FSBLKCNT_T
typedef unsigned long fsblkcnt_t;
#endif
#ifndef HAVE_FSFILCNT_T
typedef unsigned long fsfilcnt_t;
#endif

#ifndef ST_RDONLY
#define ST_RDONLY 1
#endif
#ifndef ST_NOSUID
#define ST_NOSUID 2
#endif

 /* as defined in IEEE Std 1003.1, 2004 Edition */
struct statvfs {
 unsigned long f_bsize; /* File system block size. */
 unsigned long f_frsize; /* Fundamental file system block size. */
 fsblkcnt_t f_blocks; /* Total number of blocks on file system in */
    /* units of f_frsize. */
 fsblkcnt_t    f_bfree; /* Total number of free blocks. */
 fsblkcnt_t    f_bavail; /* Number of free blocks available to  */
    /* non-privileged process.  */
 fsfilcnt_t    f_files; /* Total number of file serial numbers. */
 fsfilcnt_t    f_ffree; /* Total number of free file serial numbers. */
 fsfilcnt_t    f_favail; /* Number of file serial numbers available to */
    /* non-privileged process. */
 unsigned long f_fsid; /*
 File system ID. */
 unsigned long f_flag; /* BBit mask of f_flag values. */
 unsigned long f_namemax;/*  Maximum filename length. */
};
#endif

#ifndef HAVE_STATVFS
int statvfs(const char *, struct statvfs *);
#endif

#ifndef HAVE_FSTATVFS
```

```
int fstatvfs(int, struct statvfs *);
#endif
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#ifndef _BSD_MISC_H
#define _BSD_MISC_H

#include "includes.h"

char *ssh_get_progname(char *);
int seed_from_prngd(unsigned char *, size_t);

#ifndef HAVE_SETSID
#define setsid() setpgrp(0, getpid())
#endif
 /* !HAVE_SETSID */

#ifndef HAVE_SETENV
int setenv(const char *, const char *, int);
#endif /* !HAVE_SETENV */

#ifndef HAVE_SETLOGIN
int setlogin(const char *);
#endif /* !HAVE_SETLOGIN */

#ifndef HAVE_INNETGR
int innetgr(const char *, const char *, const char *, const char *);
#endif /* HAVE_INNETGR */

#if !defined(HAVE_SETEUID) && defined(HAVE_SETREUID)
int seteuid(uid_t);
#endif /* !defined(HAVE_SETEUID) && defined(HAVE_SETREUID) */

#if !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID)
```

```
int setegid(uid_t);
#endif /* !defined(HAVE_SETEGID) && defined(HAVE_SETRESGID) */

#if !defined(HAVE_STRERROR) && defined(HAVE_SYS_ERRLIST) && defined(HAVE_SYS_NERR)
const char *strerror(int);
#endif

#if !defined(HAVE_SETLINEBUF)
#define setlinebuf(a) (setvbuf((a), NULL, _IOLBF, 0))
#endif

#ifndef HAVE_UTIMES
#ifndef HAVE_STRUCT_TIMEVAL
struct timeval {
 long tv_sec;
 long tv_usec;
}
#endif /* HAVE_STRUCT_TIMEVAL */

int utimes(char *, struct timeval *);
#endif /* HAVE_UTIMES */

#ifndef AT_FDCWD
#
 define AT_FDCWD (-2)
#endif

#ifndef HAVE_FCHMODAT
int fchmodat(int, const char *, mode_t, int);
#endif

#ifndef HAVE_FCHOWNAT
int fchownat(int, const char *, uid_t, gid_t, int);
#endif

#ifndef HAVE_TRUNCATE
int truncate (const char *, off_t);
#endif /* HAVE_TRUNCATE */

#ifndef HAVE_STRUCT_TIMESPEC
struct timespec {
 time_t tv_sec;
 long tv_nsec;
};
#endif /* !HAVE_STRUCT_TIMESPEC */

#if !defined(HAVE_NANOSLEEP) && !defined(HAVE_NSLEEP)
# include <time.h>
```

```
int nanosleep(const struct timespec *, struct timespec *);
#endif

#ifndef HAVE_UTIMENSAT
# include <time.h>
/* start with the high bits and work down to minimise risk of overlap */
# ifndef AT_SYMLINK_NOFOLLOW
#  define AT_SYMLINK_NOFOLLOW 0x80000000
# endif
int utimensat(int, const char *, const struct timespec[2], int);
#endif /* !HAVE_UTIMENSAT */

#ifndef HAVE_USLEEP
int usleep(unsigned int useconds);
#endif

#ifndef HAVE_TCGETPGRP
pid_t tcgetpgrp(int);
#endif

#ifndef HAVE_TCSENDBREAK
int tcsendbreak(int, int);
#endif

#ifndef
 HAVE_UNSETENV
int unsetenv(const char *);
#endif

#ifndef HAVE_ISBLANK
int isblank(int);
#endif

#ifndef HAVE_GETPGID
pid_t getpgid(pid_t);
#endif

#ifndef HAVE_PSELECT
int pselect(int, fd_set *, fd_set *, fd_set *, const struct timespec *,
   const sigset_t *);
#endif

#ifndef HAVE_ENDGRENT
# define endgrent() do { } while(0)
#endif

#ifndef HAVE_KRB5_GET_ERROR_MESSAGE
# define krb5_get_error_message krb5_get_err_text
```

```
#endif

#ifndef HAVE_KRB5_FREE_ERROR_MESSAGE
# define krb5_free_error_message(a,b) do { } while(0)
#endif

#ifndef HAVE_PLEDGE
int pledge(const char *promises, const char *paths[]);
#endif

/* bsd-err.h */
#ifndef HAVE_ERR
void err(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_ERRX
void errx(int, const char *, ...) __attribute__((format(printf, 2, 3)));
#endif
#ifndef HAVE_WARN
void warn(const char *, ...) __attribute__((format(printf, 1, 2)));
#endif

#ifndef HAVE_LLABS
long long llabs(long long);
#endif

#if defined(HAVE_DECL_BZERO)
 && HAVE_DECL_BZERO == 0
void bzero(void *, size_t);
#endif

#ifndef HAVE_RAISE
int raise(int);
#endif

#ifndef HAVE_GETSID
pid_t getsid(pid_t);
#endif

#ifndef HAVE_FLOCK
# define LOCK_SH  0x01
# define LOCK_EX  0x02
# define LOCK_NB  0x04
# define LOCK_UN  0x08
int flock(int, int);
#endif

#ifdef FFLUSH_NULL_BUG
# define fflush(x) (_ssh_compat_fflush(x))
```

```
#endif

#ifndef HAVE_LOCALTIME_R
struct tm *localtime_r(const time_t *, struct tm *);
#endif

#ifndef HAVE_REALPATH
#define realpath(x, y) (sftp_realpath((x), (y)))
#endif

#endif /* _BSD_MISC_H */
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#define _BSD_SIGNAL_H

#include "includes.h"

#include <signal.h>

#ifndef _NSIG
# ifdef NSIG
#  define _NSIG NSIG
# else
#  define _NSIG 128
# endif
#endif

#if !defined(HAVE_STRSIGNAL)
char
 *strsignal(int);
#endif

#endif /* _BSD_SIGNAL_H */
```

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*
* Created: Sat Sep 02 12:17:00 2000 cv
*
* This file contains functions for forcing opened file descriptors to
* binary mode on Windows systems.
*/

#ifndef _BSD_CYGWIN_UTIL_H
#define _BSD_CYGWIN_UTIL_H

#ifdef HAVE_CYGWIN

#undef ERROR

/* Avoid including windows headers. */
typedef void *HANDLE;
#define INVALID_HANDLE_VALUE ((HANDLE) -1)
#define DNLEN 16
#define UNLEN 256

/* Cygwin functions for which declarations are only available when including
  windows headers, so we have to define them here explicitly. */
extern HANDLE cygwin_logon_user (const struct passwd *, const char *);
extern void cygwin_set_impersonation_token (const HANDLE);
```

```
#include
 <sys/cygwin.h>
#include <io.h>

#define CYGWIN_SSH_PRIVSEP_USER (cygwin_ssh_privsep_user())
const char *cygwin_ssh_privsep_user();

int binary_open(const char *, int , ...);
int check_ntsec(const char *);
char **fetch_windows_environment(void);
void free_windows_environment(char **);
int cygwin_ug_match_pattern_list(const char *, const char *);

#ifndef NO_BINARY_OPEN
#define open binary_open
#endif

#endif /* HAVE_CYGWIN */

#endif /* _BSD_CYGWIN_UTIL_H */
/* $OpenBSD: poll.h,v 1.11 2003/12/10 23:10:08 millert Exp $ */

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*/
```

```
/* OPENBSD ORIGINAL: sys/sys/poll.h */

#ifndef _COMPAT_POLL_H_
#define _COMPAT_POLL_H_

#include <sys/types.h>
#ifdef HAVE_POLL_H
# include <poll.h>
#elif HAVE_SYS_POLL_H
# include <sys/poll.h>
#endif

#ifndef HAVE_STRUCT_POLLFD_FD
typedef struct pollfd {
 int fd;
 short events;
 short revents;
} pollfd_t;

#define POLLIN  0x0001
#define POLLPRI  0x0002
#define POLLOUT  0x0004
#define POLLERR  0x0008
#define POLLHUP  0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLRDNORM 0x0040
#define POLLNORM POLLRDNORM
#define POLLWRNORM      POLLOUT
#define POLLRDBAND 0x0080
#define POLLWRBAND 0x0100
#endif

#define
 INFTIM  (-1) /* not standard */
#endif /* !HAVE_STRUCT_POLLFD_FD */

#ifndef HAVE_NFDS_T
typedef unsigned int nfds_t;
#endif

#ifndef HAVE_POLL
int   poll(struct pollfd *, nfds_t, int);
#endif

#ifndef HAVE_PPOLL
int   ppoll(struct pollfd *, nfds_t, const struct timespec *, const sigset_t *);
```

```
#endif

#endif /* !_COMPAT_POLL_H_ */
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*
*/

#ifndef _NEXT_POSIX_H
#define _NEXT_POSIX_H

#ifdef HAVE_NEXT
#include <sys/dir.h>

/* NGROUPS_MAX is behind -lposix.  Use the BSD version which is NGROUPS */
#undef NGROUPS_MAX
#define NGROUPS_MAX NGROUPS

/* NeXT's readdir() is BSD (struct direct) not POSIX (struct dirent) */
#define dirent direct

/* Swap out NeXT's BSD wait() for a more POSIX compliant one */
pid_t posix_wait(int *);
#define wait(a) posix_wait(a)

/* #ifdef wrapped functions that need defining for clean compiling */
pid_t getppid(void);
```

```
void vhangup(void);
int innetgr(const char *, const char *, const char *, const char *);

/* TERMCAP */
int tcgetattr(int, struct termios *);
int tcsetattr(int, int,
 const struct termios *);
int tcsetpgrp(int, pid_t);
speed_t cfgetospeed(const struct termios *);
speed_t cfgetispeed(const struct termios *);
int cfsetospeed(struct termios *, int);
int cfsetispeed(struct termios *, int);
#endif /* HAVE_NEXT */
#endif /* _NEXT_POSIX_H */
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*/

#ifndef HAVE_SETRESGID
int setresgid(gid_t, gid_t, gid_t);
#endif
#ifndef HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#endif
```

1.5640 python3-yaml 5.4.1-1ubuntu1

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1.5645 zlib1g-dev 1:1.2.11.dfsg-2ubuntu9.2

1.5645.1 Available under license :

No license file was found, but licenses were detected in source scan.

/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/README
ZLIB DATA COMPRESSION LIBRARY
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/adler32.c/*
adler32.c -- compute the Adler-32 checksum of a data stream
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/compress.c/*
compress.c -- compress a memory buffer
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/MiniZip64_info.txt
MiniZip - Copyright (c) 1998-2010 - by Gilles Vollant - version 1.1 64 bits from Mathias Svensson
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/minizip.c/*
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.c/*
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/mztools.h/*
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.c/*
unzip.c -- IO for uncompress .zip files using zlib
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/unzip.h/* unzip.h -- IO for uncompress .zip files using zlib
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/contrib/minizip/zip.h/* zip.h -- IO on .zip files using zlib
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/crc32.c/*
crc32.c -- compute the CRC-32 of a data stream
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.c/*
deflate.c -- compress data using the deflation algorithm
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/deflate.h/*
deflate.h -- internal compression state
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-

1.2.11.dfsg/examples/fitblk.c/* fitblk.c: example of fitting compressed output to a specified size
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/gun.c/* gun.c -- simple gunzip to give an example of the use of inflateBack()
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/gzappend.c/* gzappend -- command to append to a gzip file
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/gzjoin.c/* gzjoin -- command to join gzip files into one gzip file
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/gzlog.c/*
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/gzlog.h/*
gzlog.h
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/zlib_how.html<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/zpipe.c/* zpipe.c: example of proper use of zlib's inflate() and deflate()
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/examples/zran.c/* zran.c -- example of zlib/gzip stream indexing and random access
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzclose.c/*
gzclose.c -- zlib gzclose() function
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzguts.h/*
gzguts.h -- zlib internal header definitions for gz* operations
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzlib.c/*
gzlib.c -- zlib functions common to reading and writing gzip files
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzread.c/*
gzread.c -- zlib functions for reading gzip files
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/gzwrite.c/*
gzwrite.c -- zlib functions for writing gzip files
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/infback.c/*
infback.c -- inflate using a call-back interface
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.c/*
inffast.c -- fast decoding
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inffast.h/*
inffast.h -- header to use inffast.c
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.c/*
inflate.c -- zlib decompression
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inflate.h/*
inflate.h -- internal inflate state definition
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.c/*
inftrees.c -- generate Huffman trees for efficient decoding
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/inftrees.h/*
inftrees.h -- header to use inftrees.c
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/msdos/Makefile.dj2# Makefile for zlib. Modified for djgpp v2.0 by F. J. Donahoe, 3/15/96.
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/msdos/Makefile.emx# Makefile for zlib. Modified for emx 0.9c by Chr. Spieler, 6/17/98.
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-
1.2.11.dfsg/old/Makefile.emx# Makefile for zlib. Modified for emx/rsxnt by Chr. Spieler,

6/16/98.
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/old/os2/Makefile.os2# Makefile for zlib under OS/2 using GCC (PGCC)
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/example.c/* example.c -- usage example of the zlib compression library
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/infcover.c/* infcover.c -- test zlib's inflate routines with full code coverage
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/test/minigzip.c/* minigzip.c -- simulate gzip using the zlib compression library
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/trees.c/* trees.c -- output deflated data using Huffman coding
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/uncompr.c/* uncompr.c -- decompress
a memory buffer
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h/* zconf.h -- configuration of the zlib compression library
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.cmakein/* zconf.h -- configuration of the zlib compression library
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zconf.h.in/* zconf.h -- configuration of the zlib compression library
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.3.TH ZLIB 3 "15 Jan 2017"
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zlib.h/* zlib.h -- interface of the 'zlib' general purpose compression library
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.c/* zutil.c -- target dependent utility functions for the compression library
/opt/cola/permits/2657938638_1759251971.058851/0/zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/zutil.h/*
zutil.h -- internal interface and configuration of the compression library

Found in path(s):
*
No license file was found, but licenses were detected in source scan.

Frequently Asked Questions about zlib

If your question is not there, please check the zlib home page
http://zlib.net/ which may have more recent information.
The lastest zlib FAQ is at http://zlib.net/zlib_faq.html

1. Is zlib Y2K-compliant?

Yes. zlib doesn't handle dates.

2. Where can I get a Windows DLL version?

The zlib sources can be compiled without change to produce a DLL. See the file win32/DLL_FAQ.txt in the zlib distribution. Pointers to the precompiled DLL are found in the zlib web site at http://zlib.net/ .

3. Where can I get a Visual Basic interface to zlib?

See
* http://marknelson.us/1997/01/01/zlib-engine/
* win32/DLL_FAQ.txt in the zlib distribution

4. compress() returns Z_BUF_ERROR.

Make sure that before the call of compress(), the length of the compressed buffer is equal to the available size of the compressed buffer and not zero. For Visual
Basic, check that this parameter is passed by reference ("as any"), not by value ("as long").

5. deflate() or inflate() returns Z_BUF_ERROR.

Before making the call, make sure that avail_in and avail_out are not zero. When setting the parameter flush equal to Z_FINISH, also make sure that avail_out is big enough to allow processing all pending input. Note that a Z_BUF_ERROR is not fatal--another call to deflate() or inflate() can be made with more input or output space. A Z_BUF_ERROR may in fact be unavoidable depending on how the functions are used, since it is not possible to tell whether or not there is more output pending when strm.avail_out returns with zero. See http://zlib.net/zlib_how.html for a heavily annotated example.

6. Where's the zlib documentation (man pages, etc.)?

It's in zlib.h . Examples of zlib usage are in the files test/example.c and test/minigzip.c, with more in examples/ .

7. Why don't you use GNU
autoconf or libtool or ...?

Because we would like to keep zlib as a very small and simple package. zlib is rather portable and doesn't need much configuration.

8. I found a bug in zlib.

Most of the time, such problems are due to an incorrect usage of zlib. Please try to reproduce the problem with a small program and send the corresponding source to us at zlib@gzip.org . Do not send multi-megabyte data files without prior agreement.

9. Why do I get "undefined reference to gzputc"?

If "make test" produces something like

example.o(.text+0x154): undefined reference to `gzputc'

check that you don't have old files libz.* in /usr/lib, /usr/local/lib or /usr/X11R6/lib. Remove any old versions, then do "make install".

10. I need a Delphi interface to zlib.

See the contrib/delphi directory in the zlib distribution.

11. Can zlib handle .zip archives?

Not by itself, no. See the directory contrib/minizip in the zlib distribution.

12.
Can zlib handle .Z files?

No, sorry. You have to spawn an uncompress or gunzip subprocess, or adapt the code of uncompress on your own.

13. How can I make a Unix shared library?

By default a shared (and a static) library is built for Unix. So:

```
make distclean
./configure
make
```

14. How do I install a shared zlib library on Unix?

After the above, then:

```
make install
```

However, many flavors of Unix come with a shared zlib already installed. Before going to the trouble of compiling a shared version of zlib and trying to install it, you may want to check if it's already there! If you can #include <zlib.h>, it's there. The -lz option will probably link to it. You can check the version at the top of zlib.h or with the ZLIB_VERSION symbol defined in zlib.h .

15. I have a question about OttoPDF.

We are not the authors of OttoPDF. The real author is on the OttoPDF web

site: Joel Hainley, jhainley@myndkryme.com.

16.
Can zlib decode Flate data in an Adobe PDF file?

Yes. See http://www.pdflib.com/ . To modify PDF forms, see http://sourceforge.net/projects/acroformtool/ .

17. Why am I getting this "register_frame_info not found" error on Solaris?

After installing zlib 1.1.4 on Solaris 2.6, running applications using zlib generates an error such as:

```
ld.so.1: rpm: fatal: relocation error: file /usr/local/lib/libz.so:
symbol __register_frame_info: referenced symbol not found
```

The symbol __register_frame_info is not part of zlib, it is generated by the C compiler (cc or gcc). You must recompile applications using zlib which have this problem. This problem is specific to Solaris. See http://www.sunfreeware.com for Solaris versions of zlib and applications using zlib.

18. Why does gzip give an error on a file I make with compress/deflate?

The compress and deflate functions produce data in the zlib format, which is different and incompatible
with the gzip format. The gz* functions in
zlib on the other hand use the gzip format. Both the zlib and gzip formats use the same compressed data format internally, but have different headers and trailers around the compressed data.

19. Ok, so why are there two different formats?

The gzip format was designed to retain the directory information about a single file, such as the name and last modification date. The zlib format on the other hand was designed for in-memory and communication channel applications, and has a much more compact header and trailer and uses a faster integrity check than gzip.

20. Well that's nice, but how do I make a gzip file in memory?

You can request that deflate write the gzip format instead of the zlib format using deflateInit2(). You can also request that inflate decode the gzip format using inflateInit2(). Read zlib.h for more details.

21. Is zlib thread-safe?

Yes. However any library routines

that zlib uses and any application-
provided memory allocation routines must also be thread-safe. zlib's gz* functions use stdio library routines, and most of zlib's functions use the library memory allocation routines by default. zlib's *Init* functions allow for the application to provide custom memory allocation routines.

Of course, you should only operate on any given zlib or gzip stream from a single thread at a time.

22. Can I use zlib in my commercial application?

Yes. Please read the license in zlib.h.

23. Is zlib under the GNU license?

No. Please read the license in zlib.h.

24. The license says that altered source versions must be "plainly marked". So what exactly do I need to do to meet that requirement?

You need to change the ZLIB_VERSION and ZLIB_VERNUM #defines in zlib.h. In particular, the final version number needs to be changed to "f", and an identification string should be appended to ZLIB_VERSION. Version numbers x.x.x.f are reserved for modifications to zlib by others than the zlib maintainers. For example, if the version of the base zlib you are altering is "1.2.3.4", then in zlib.h you should change ZLIB_VERNUM to 0x123f, and ZLIB_VERSION to something like "1.2.3.f-zachary-mods-v3". You can also update the version strings in deflate.c and inftrees.c.

For altered source distributions, you should also note the origin and nature of the changes in zlib.h, as well as in ChangeLog and README, along with the dates of the alterations. The origin should include at least your name (or your company's name), and an email address to contact for help or issues with the library.

Note that distributing a compiled zlib library along with zlib.h and zconf.h is also a source distribution, and so you should change ZLIB_VERSION and ZLIB_VERNUM and note the origin and nature of the changes in zlib.h as you would for a full source distribution.

25.
Will zlib work on a big-endian or little-endian architecture, and can I exchange compressed data between them?

Yes and yes.

26. Will zlib work on a 64-bit machine?

Yes. It has been tested on 64-bit machines, and has no dependence on any data types being limited to 32-bits in length. If you have any difficulties, please provide a complete problem report to zlib@gzip.org

27. Will zlib decompress data from the PKWare Data Compression Library?

No. The PKWare DCL uses a completely different compressed data format than does PKZIP and zlib. However, you can look in zlib's contrib/blast directory for a possible solution to your problem.

28. Can I access data randomly in a compressed stream?

No, not without some preparation. If when compressing you periodically use Z_FULL_FLUSH, carefully write all the pending data at those points, and keep an index of those locations, then you can start decompression at those points. You have to be careful to not use Z_FULL_FLUSH too often, since it can significantly degrade compression. Alternatively, you can scan a deflate stream once to generate an index, and then use that index for random access. See examples/zran.c .

29. Does zlib work on MVS, OS/390, CICS, etc.?

It has in the past, but we have not heard of any recent evidence. There were working ports of zlib 1.1.4 to MVS, but those links no longer work. If you know of recent, successful applications of zlib on these operating systems, please let us know. Thanks.

30. Is there some simpler, easier to read version of inflate I can look at to understand the deflate format?

First off, you should read RFC 1951. Second, yes. Look in zlib's contrib/puff directory.

31. Does zlib infringe on any patents?

As far as we know, no. In fact, that was originally the whole point behind zlib. Look here for some more information:

http://www.gzip.org/#faq11

32. Can zlib work with greater than 4 GB of data?

Yes. inflate() and deflate() will process any amount of data correctly. Each call of inflate() or deflate() is limited to input and output chunks of the maximum value that can be stored in the compiler's "unsigned int" type, but there is no limit to the number of chunks. Note however that the

strm.total_in and strm_total_out counters may be limited to 4 GB. These counters are provided as a convenience and are not used internally by inflate() or deflate(). The application can easily set up its own counters updated after each call of inflate() or deflate() to count beyond 4 GB. compress() and uncompress() may be limited to 4 GB, since they operate in a single call. gzseek() and gztell() may be limited to 4 GB depending on how zlib is compiled. See the zlibCompileFlags() function in zlib.h.

The word "may" appears several times above since there is a 4 GB limit only if the compiler's "long" type is
32 bits. If the compiler's "long" type is
64 bits, then the limit is 16 exabytes.

33. Does zlib have any security vulnerabilities?

The only one that we are aware of is potentially in gzprintf(). If zlib is compiled to use sprintf() or vsprintf(), then there is no protection against a buffer overflow of an 8K string space (or other value as set by gzbuffer()), other than the caller of gzprintf() assuring that the output will not exceed 8K. On the other hand, if zlib is compiled to use snprintf() or vsnprintf(), which should normally be the case, then there is no vulnerability. The ./configure script will display warnings if an insecure variation of sprintf() will be used by gzprintf(). Also the zlibCompileFlags() function will return information on what variant of sprintf() is used by gzprintf().

If you don't have snprintf() or vsnprintf() and would like one, you can find a portable implementation here:

http://www.ijs.si/software/snprintf/

Note that you should be using the most recent version of zlib. Versions 1.1.3 and before were subject to a double-free vulnerability, and versions 1.2.1 and 1.2.2 were subject to an access exception when decompressing invalid compressed data.

34. Is there a Java version of zlib?

Probably what you want is to use zlib in Java. zlib is already included as part of the Java SDK in the java.util.zip package. If you really want a version of zlib written in the Java language, look on the zlib home page for links: http://zlib.net/ .

35. I get this or that compiler or source-code scanner warning when I crank it up to maximally-pedantic. Can't you guys write proper code?

Many years ago, we gave up attempting to avoid warnings on every compiler in the universe. It just got to be a waste of time, and some compilers

were downright silly as well as contradicted each other. So now, we simply make sure that the code always
works.

36. Valgrind (or some similar memory access checker) says that deflate is performing a conditional jump that depends on an uninitialized value. Isn't that a bug?

No. That is intentional for performance reasons, and the output of deflate is not affected. This only started showing up recently since zlib 1.2.x uses malloc() by default for allocations, whereas earlier versions used calloc(), which zeros out the allocated memory. Even though the code was correct, versions 1.2.4 and later was changed to not stimulate these checkers.

37. Will zlib read the (insert any ancient or arcane format here) compressed data format?

Probably not. Look in the comp.compression FAQ for pointers to various formats and associated software.

38. How can I encrypt/decrypt zip files with zlib?

zlib doesn't support encryption. The original PKZIP encryption is very weak and can be broken with freely available programs. To get strong encryption,
use GnuPG, http://www.gnupg.org/ , which already includes zlib compression. For PKZIP compatible "encryption", look at http://www.info-zip.org/

39. What's the difference between the "gzip" and "deflate" HTTP 1.1 encodings?

"gzip" is the gzip format, and "deflate" is the zlib format. They should probably have called the second one "zlib" instead to avoid confusion with the raw deflate compressed data format. While the HTTP 1.1 RFC 2616 correctly points to the zlib specification in RFC 1950 for the "deflate" transfer encoding, there have been reports of servers and browsers that incorrectly produce or expect raw deflate data per the deflate specification in RFC 1951, most notably Microsoft. So even though the "deflate" transfer encoding using the zlib format would be the more efficient approach (and in fact exactly what the zlib format was designed for), using the "gzip" transfer encoding is probably more reliable due to an
unfortunate choice of name on the part of the HTTP 1.1 authors.

Bottom line: use the gzip format for HTTP 1.1 encoding.

40. Does zlib support the new "Deflate64" format introduced by PKWare?

No. PKWare has apparently decided to keep that format proprietary, since they have not documented it as they have previous compression formats. In any case, the compression improvements are so modest compared to other more modern approaches, that it's not worth the effort to implement.

41. I'm having a problem with the zip functions in zlib, can you help?

There are no zip functions in zlib. You are probably using minizip by Giles Vollant, which is found in the contrib directory of zlib. It is not part of zlib. In fact none of the stuff in contrib is part of zlib. The files in there are not supported by the zlib authors. You need to contact the authors of the respective contribution for help.

42. The match.asm code in contrib is under the GNU General Public License.
Since it's part of zlib, doesn't that mean that all of zlib falls under the GNU GPL?

No. The files in contrib are not part of zlib. They were contributed by other authors and are provided as a convenience to the user within the zlib distribution. Each item in contrib has its own license.

43. Is zlib subject to export controls? What is its ECCN?

zlib is not subject to export controls, and so is classified as EAR99.

44. Can you please sign these lengthy legal documents and fax them back to us so that we can use your software in our product?

No. Go away. Shoo.

Found in path(s):
* /zlib-1-2-11-dfsg-orig-2-tar-gz/zlib-1.2.11.dfsg/FAQ

1.5646 libsasl2-dev 2.1.27+dfsg2-3ubuntu1.2

1.5646.1 Available under license :

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* Tim Martin
* Rob Earhart
* Rob Siemborski
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```

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A. HISTORY OF THE SOFTWARE
==========

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

All Python releases are Open Source (see https://opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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```
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
 Plugin     string
 Option     string
 Severity   string // 'deprecated', 'removed', or 'unsupported'
 ReplacedBy string
 Additional string
 Version    string
}

func (n *Notice) ToString() string {
```

```
 s := ""
 if n.Option == "" {
  s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
 } else {
  s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
 }
 if n.Severity == SevUnsupported {
  s += "is unsupported by this migration tool in " + n.Version + "."
 } else if n.Severity == SevNewDefault {
  s += "is added as a default in " + n.Version + "."
 } else {
  s += "is " + n.Severity + " in " + n.Version + "."
 }
 if n.ReplacedBy != "" {
  s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
 }
 if n.Additional != "" {
  s += " " + n.Additional
 }
 return s
}

const (
 // The following statuses are used to indicate the state of support/deprecation in a given release.
 SevDeprecated  = "deprecated"
  // deprecated, but still completely functional
 SevIgnored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
 SevRemoved     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present
in the Corefile
 SevNewDefault  = "newdefault"  // added to the default corefile.  CoreDNS may not function properly if it is not
present in the corefile.
 SevUnsupported = "unsupported" // the plugin/option is not supported by the migration tool

 // The following statuses are used for selecting/filtering notifications
 SevAll = "all" // show all statuses
)
```

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The common/types/pb/equal.go modification of proto.Equal logic
==========
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}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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==========
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==========
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If distribution of object code is made by offering access to copy from a designated place, then offering
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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for

the work may be a derivative
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see https://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no

2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see https://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see https://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see https://opensource.org for
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*            combined, allow nicstar_free_rx_skb to be called to
*            recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
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*
* M. Welsh, 6 July 1996
*
*
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{
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  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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1.5663 google-auth 2.41.1

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*/
#include <net-snmp/system/generic.h>

/*
* the bsd route symbol adds an 's' at the end to this symbol name
*/
#undef RTTABLES_SYMBOL
#define RTTABLES_SYMBOL "rt_tables"

/*
* BSD systems use a different method of looking up sockaddr_in values
*/
#define NEED_KLGETSA 1

#define UTMP_HAS_NO_TYPE 1
#define UTMP_HAS_NO_PID 1
```

1.5665 libsnmp-base 5.9.1+dfsg-1ubuntu2.8

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*/
#include <net-snmp/system/generic.h>
```

```
/*
* the bsd route symbol adds an 's' at the end to this symbol name
*/
#undef RTTABLES_SYMBOL
#define RTTABLES_SYMBOL "rt_tables"

/*
* BSD systems use a different method of looking up sockaddr_in values
*/
#define NEED_KLGETSA 1

#define UTMP_HAS_NO_TYPE 1
#define UTMP_HAS_NO_PID 1
```

1.5666 libfreeipmi17 1.6.9-2ubuntu0.22.04.2

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1.5674 ldap-utils 2.5.19+dfsg-0ubuntu0.22.04.1

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For the xml\expat\conftools\install-sh component:

#
install - install a program, script, or datafile
This comes from X11R5 (mit/util/scripts/install.sh).
#
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1.5677 python-certifi 2025.10.5

1.5677.1 Available under license :

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
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ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt
It contains the certificates in PEM format and therefore
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1.5679 kubernetes-metrics 0.33.5

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1.5681 kubernetes-cliruntime 0.33.5

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>>> freebsd-base64-4.8
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==========

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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>>> freebsd-base64-4.8
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==========

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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>>> unicode-5.0

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables
containing that work also fall under Section 6,
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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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Open-vm-tools v10.3.0

The Linux kernel modules are released under the GPL v2, a majority of the user level components are released under the LGPL v2.1, and the SVGA and mouse drivers are released under the X11 license.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled
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==========

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base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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and semantics are as close as possible
to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.
.
This module is a wrapper that provides a POSIX API to the underlying PCRE
functions.
.
Written by: Philip Hazel <ph10@cam.ac.uk>
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 Haines
This imagemap module started as a port of the original imagemap.c
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This version includes the mapping algorithms found in version 1.3
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.
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port to Apache module format, "base_uri" and support for relative URLs
.
James H. Cloos, Jr., cloos@jhcloos.com
Added point datatype, using code in NCSA's version 1.8 imagemap.c
program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu
.
Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
   ImapMenu {none, formatted, semiformatted, unformatted}
   ImapDefault {error, nocontent, referer, menu,
 URL}
   ImapBase {map, referer, URL}
Support for creating non-graphical menu added. (backwards compatible):
   Old: directive URL [x,y ...]
   New: directive URL "Menu text" [x,y ...]
    or: directive URL x,y ... "Menu text"
Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.
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.
For compliance with Mr Darwin's terms: this has been very significantly
modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one
  version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server
  structures passed to them where
 necessary to call other Apache API
  routines. (i.e. usually for logging, files, or memory allocation in
  itself or a called function.)
- struct magic has been converted from an array to a single-ended linked
  list because it only grows one record at a time, it's only accessed
  sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server
  configuration instead of globals. (It should be reentrant now but has
  not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a
  list where they're used to set the MIME type in the Apache request
  record.
- Command-line flags have been removed since they will never be used here.
.
Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA
.
Initial installation July/August 1996
Misc bug fixes May 1997
Submission
 to Apache Software Foundation July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by
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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head>
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var comments_identifier = 'http://httpd.apache.org/docs/2.4/license.html';
(function(w, d) {
  if (w.location.hostname.toLowerCase() == "httpd.apache.org") {
    d.write(' \/div>');
    var s = d.createElement('script');
    s.type = 'text/javascript';
    s.async = true;
    s.src = 'https://comments.apache.org/show_comments.lua?site=' + comments_shortname + '&page=' +
comments_identifier;
     (d.getElementsByTagName('head')[0] || d.getElementsByTagName('body')[0]).appendChild(s);
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href="http://wiki.apache.org/httpd/FAQ">FAQ | Glossary | <a
href="./sitemap.html">Sitemap <script type="text/javascript"><!--//--><![CDATA[//><!--
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```
/*****************************************************************************
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* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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 *
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==========

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

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Mike Belshe (mbelshe@netscape.com)
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* Markus Kuhn -- 2007-05-26 (Unicode 5.0)
*
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1.5696 qemu-utils 1:6.2+dfsg-2ubuntu6.27

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```
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*  x86_64 system call definitions
*
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*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

#define __USER_CS (0x33)
#define __USER_DS (0x2B)

struct target_pt_regs {
 abi_ulong r15;
 abi_ulong r14;
 abi_ulong r13;
 abi_ulong r12;
 abi_ulong rbp;
 abi_ulong rbx;
/* arguments: non interrupts/non tracing syscalls only save up to here */
 abi_ulong
 r11;
 abi_ulong r10;
 abi_ulong r9;
 abi_ulong r8;
 abi_ulong rax;
 abi_ulong rcx;
 abi_ulong rdx;
```

```
 abi_ulong rsi;
 abi_ulong rdi;
 abi_ulong orig_rax;
/* end of arguments */
/* cpu exception frame or undefined */
 abi_ulong rip;
 abi_ulong cs;
 abi_ulong eflags;
 abi_ulong rsp;
 abi_ulong ss;
/* top of stack page */
};

/* Maximum number of LDT entries supported. */
#define TARGET_LDT_ENTRIES 8192
/* The size of each LDT entry. */
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES 16
#define TARGET_GDT_ENTRY_TLS_ENTRIES 3
#define TARGET_GDT_ENTRY_TLS_MIN 12
#define TARGET_GDT_ENTRY_TLS_MAX 14

#if 0 // Redefine this
struct target_modify_ldt_ldt_s {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
 unsigned int  seg_32bit:1;
 unsigned int  contents:2;
 unsigned int  read_exec_only:1;
 unsigned int  limit_in_pages:1;
 unsigned int  seg_not_present:1;
 unsigned int  useable:1;
 unsigned int  lm:1;
};
#else
struct target_modify_ldt_ldt_s
 {
 unsigned int  entry_number;
      abi_ulong     base_addr;
 unsigned int  limit;
      unsigned int flags;
};
#endif

struct target_ipc64_perm
{
```

```
 int  key;
 uint32_t uid;
 uint32_t gid;
 uint32_t cuid;
 uint32_t cgid;
 unsigned short  mode;
 unsigned short  __pad1;
 unsigned short  seq;
 unsigned short  __pad2;
 abi_ulong  __unused1;
 abi_ulong  __unused2;
};

struct target_msqid64_ds {
 struct target_ipc64_perm msg_perm;
 unsigned int msg_stime; /* last msgsnd time */
 unsigned int msg_rtime; /* last msgrcv time */
 unsigned int msg_ctime; /* last change time */
 abi_ulong  msg_cbytes; /* current number of bytes on queue */
 abi_ulong  msg_qnum; /* number of messages in queue */
 abi_ulong  msg_qbytes; /* max number of bytes on queue */
 unsigned int msg_lspid; /* pid of last msgsnd */
 unsigned int msg_lrpid; /* last receive pid */
 abi_ulong  __unused4;
 abi_ulong  __unused5;
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
    /*
 I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
    /* xxxxx */
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10

#define TARGET_FREEBSD_AMD64_GET_FSBASE 128
#define TARGET_FREEBSD_AMD64_SET_FSBASE 129
#define TARGET_FREEBSD_AMD64_GET_GSBASE 130
#define TARGET_FREEBSD_AMD64_SET_GSBASE 131


#define UNAME_MACHINE           "x86_64"
#define TARGET_HW_MACHINE       "amd64"
```

```
#define TARGET_HW_MACHINE_ARCH  "amd64"

#define TARGET_ARCH_SET_GS 0x1001
#define TARGET_ARCH_SET_FS 0x1002
#define TARGET_ARCH_GET_FS 0x1003
#define TARGET_ARCH_GET_GS 0x1004

#endif /* TARGET_SYSCALL_H */
```

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Stefan Reinauer

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{ TARGET_FREEBSD_NR___acl_aclcheck_fd, "__acl_aclcheck_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_file, "__acl_aclcheck_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_aclcheck_link, "__acl_aclcheck_link", "%s(\"%s\", %d, %#x)", NULL, NULL
},
{ TARGET_FREEBSD_NR___acl_delete_fd,
```

```
 "__acl_delete_fd", "%s(%d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_file, "__acl_delete_file", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_delete_link, "__acl_delete_link", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_fd, "__acl_get_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_file, "__acl_get_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_get_link, "__acl_get_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_fd, "__acl_set_fd", "%s(%d, %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_file, "__acl_set_file", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___acl_set_link, "__acl_set_link", "%s(\"%s\", %d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR___getcwd, "__getcwd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___semctl, "__semctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___syscall, "__syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR___sysctl,
 "__sysctl", NULL, print_sysctl, NULL },
{ TARGET_FREEBSD_NR__umtx_op, "_umtx_op", "%s(%#x, %d, %d, %#x, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept, "accept", "%s(%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_accept4, "accept4", "%s(%d,%d,%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_access, "access", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_acct, "acct", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_adjtime, "adjtime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bind, "bind", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_bindat, "bindat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_break, "break", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_enter, "cap_enter", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_get, "cap_fcntls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_fcntls_limit, "cap_fcntls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_getmode, "cap_getmode", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_get, "cap_ioctls_get", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_ioctls_limit,
 "cap_ioctls_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_cap_rights_limit, "cap_rights_limit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chdir, "chdir", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_chflags, "chflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chflagsat, "chflagsat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chmod, "chmod", "%s(\"%s\",%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_chown, "chown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_chroot, "chroot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_getres, "clock_getres", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_gettime, "clock_gettime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_clock_settime, "clock_settime", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_close, "close", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connect, "connect", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_connectat, "connectat", "%s(%d,%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_cpuset_getdomain, "cpuset_getdomain", NULL, NULL,
 NULL },
{ TARGET_FREEBSD_NR_cpuset_setdomain, "cpuset_setdomain", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup, "dup", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_dup2, "dup2", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_eaccess, "eaccess", "%s(\"%s\",%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_execve, "execve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_exit, "exit", "%s(%d)\n", NULL, NULL },
{ TARGET_FREEBSD_NR_extattrctl, "extattrctl", "%s(\"%s\", %d, \"%s\", %d, \"%s\"", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_fd, "extattr_delete_fd", "%s(%d, %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_file, "extattr_delete_file", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_delete_link, "extattr_delete_link", "%s(\"%s\", %d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_fd, "extattr_get_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{
 TARGET_FREEBSD_NR_extattr_get_file, "extattr_get_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_list_fd, "extattr_list_fd", "%s(%d, %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_file, "extattr_list_file", "%s(\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_list_link, "extattr_list_link", "%s(\"%s\", %d, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_fd, "extattr_set_fd", "%s(%d, %d, \"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_extattr_set_file, "extattr_set_file", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL, NULL
},
{ TARGET_FREEBSD_NR_extattr_set_link, "extattr_set_link", "%s(\"%s\", %d, \"%s\", %#x, %d)", NULL,
NULL },
{ TARGET_FREEBSD_NR_fchdir, "fchdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchflags, "fchflags", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fchmod, "fchmod", "%s(%d,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_fchown, "fchown", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fcntl, "fcntl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fdatasync, "fdatasync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fexecve, "fexecve", NULL, print_execve, NULL },
{ TARGET_FREEBSD_NR_fhopen, "fhopen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstat, "fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fhstatfs, "fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstat, "freebsd11_fhstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fhstatfs, "freebsd11_fhstatfs", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_flock, "flock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fork, "fork", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_fpathconf, "fpathconf", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_fstat, "fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatat, "fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_fstatfs, "fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstat, "freebsd11_fstat", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatat,
 "freebsd11_fstatat", "%s(%d,\"%s\", %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_fstatfs, "freebsd11_fstatfs", "%s(%d,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_fsync, "fsync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ftruncate, "ftruncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_futimens, "futimens", "%s(%d,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_futimes, "futimes", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_getcontext, "getcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getdirentries, "getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getdirentries, "freebsd11_getdirentries", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getegid, "getegid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_geteuid, "geteuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getfh, "getfh", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getfsstat, "getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_getfsstat, "freebsd11_getfsstat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getgid, "getgid",
 "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getgroups, "getgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getitimer, "getitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getlogin, "getlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpeername, "getpeername", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgid, "getpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getpgrp, "getpgrp", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpid, "getpid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getppid, "getppid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_getpriority, "getpriority", "%s(%#x,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_getrandom, "getrandom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresgid, "getresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getresuid, "getresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrlimit, "getrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getrusage, "getrusage", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsid, "getsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockname,
 "getsockname", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getsockopt, "getsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_gettimeofday, "gettimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_getuid, "getuid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_ioctl, "ioctl", NULL, print_ioctl, NULL },
{ TARGET_FREEBSD_NR_issetugid, "issetugid", "%s()", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_kevent, "freebsd11_kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kevent, "kevent", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kill, "kill", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_kqueue, "kqueue", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktrace, "ktrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lchown, "lchown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_link, "link", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_listen, "listen", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_lpathconf, "lpathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_lseek, "lseek", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_lstat,
 "freebsd11_lstat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_madvise, "madvise", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mincore, "mincore", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_minherit, "minherit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mkdir, "mkdir", "%s(\"%s\",%#o)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_mkfifo, "mkfifo", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mknodat, "mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknod, "freebsd11_mknod", "%s(\"%s\",%#o,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_mknodat, "freebsd11_mknodat", "%s(%d, \"%s\",%#o,%#x)", NULL,
NULL },
{ TARGET_FREEBSD_NR_mlock, "mlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mlockall, "mlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mmap, "mmap", NULL, NULL, print_syscall_ret_addr },
{ TARGET_FREEBSD_NR_mount, "mount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_mprotect, "mprotect", "%s(%#x,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_msgctl,
 "msgctl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgget, "msgget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgrcv, "msgrcv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msgsnd, "msgsnd", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_msync, "msync", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlock, "munlock", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munlockall, "munlockall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_munmap, "munmap", "%s(%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_nanosleep, "nanosleep", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_nfssvc, "nfssvc", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_open, "open", "%s(\"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_openat, "openat", "%s(%d, \"%s\",%#x,%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_pathconf, "pathconf", "%s(\"%s\", %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd10_pipe, "freebsd10_pipe", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pipe2, "pipe2", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_poll, "poll", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_posix_fallocate,
 "posix_fallocate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pread, "pread", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_preadv, "preadv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_profil, "profil", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ptrace, "ptrace", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwrite, "pwrite", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_pwritev, "pwritev", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_quotactl, "quotactl", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_read, "read", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readlink, "readlink", "%s(\"%s\",%p,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_readv, "readv", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_reboot, "reboot", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvfrom, "recvfrom", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_recvmsg, "recvmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rename, "rename", "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_revoke, "revoke", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rfork,
 "rfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rmdir, "rmdir", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_rtprio_thread, "rtprio_thread", "%s(%d, %d, %p)", NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_sbrk, "sbrk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_max, "sched_get_priority_max", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_get_priority_min, "sched_get_priority_min", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sched_yield, "sched_yield", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_select, "select", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semget, "semget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_semop, "semop", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendmsg, "sendmsg", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sendto, "sendto", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setcontext, "setcontext", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_setegid, "setegid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_seteuid, "seteuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgid, "setgid",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setgroups, "setgroups", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setitimer, "setitimer", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setlogin, "setlogin", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpgid, "setpgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setpriority, "setpriority", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setregid, "setregid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresgid, "setresgid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setresuid, "setresuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setreuid, "setreuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setrlimit, "setrlimit", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsid, "setsid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setsockopt, "setsockopt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_settimeofday, "settimeofday", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_setuid, "setuid", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmat, "shmat", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmctl, "shmctl",
 NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmdt, "shmdt", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shmget, "shmget", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_shutdown, "shutdown", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaction, "sigaction", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigaltstack, "sigaltstack", "%s(%p,%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_sigpending, "sigpending", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigprocmask, "sigprocmask", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigreturn, "sigreturn", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sigsuspend, "sigsuspend", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_socket, "socket", "%s(%d,%d,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_socketpair, "socketpair", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_sstk, "sstk", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_stat, "freebsd11_stat", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_freebsd11_statfs, "freebsd11_statfs", "%s(\"%s\",%p)", NULL, NULL },
{ TARGET_FREEBSD_NR_symlink, "symlink",
 "%s(\"%s\",\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_sync, "sync", NULL, NULL, NULL },
```

```
{ TARGET_FREEBSD_NR_sysarch, "sysarch", NULL, print_sysarch, NULL },
{ TARGET_FREEBSD_NR_syscall, "syscall", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_create, "timer_create" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_delete, "timer_delete" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_settime, "timer_settime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_gettime, "timer_gettime" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_ktimer_getoverrun, "timer_getoverrun" , NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_thr_create, "thr_create", "%s(%#x, %#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_exit, "thr_exit", "%s(%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill, "thr_kill", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_kill2, "thr_kill2", "%s(%d, %d, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_new, "thr_new", "%s(%#x, %d)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_self, "thr_self", "%s(%#x)",
 NULL, NULL },
{ TARGET_FREEBSD_NR_thr_set_name, "thr_set_name", "%s(%d, \"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_suspend, "thr_suspend", "%s(%d, %#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_thr_wake, "thr_wake", "%s(%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_truncate, "truncate", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_umask, "umask", "%s(%#o)", NULL, NULL },
{ TARGET_FREEBSD_NR_unlink, "unlink", "%s(\"%s\")", NULL, NULL },
{ TARGET_FREEBSD_NR_unmount, "unmount", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimes, "utimes", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_utimensat, "utimensat", "%s(%d,%s,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_vfork, "vfork", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait4, "wait4", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_wait6, "wait6", NULL, NULL, NULL },
{ TARGET_FREEBSD_NR_write, "write", "%s(%d,%#x,%d)", NULL, NULL },
{ TARGET_FREEBSD_NR_writev, "writev", "%s(%d,%p,%#x)", NULL, NULL },
{ TARGET_FREEBSD_NR_posix_openpt, "posix_openpt", "%s(%d)", NULL,
 NULL },
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*  FreeBSD VM parameters definitions
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*/
```

```
#ifndef _TARGET_OS_VMPARAM_H_
#define _TARGET_OS_VMPARAM_H_

#include "target_arch_vmparam.h"

/* Compare to sys/exec.h */
struct target_ps_strings {
   abi_ulong ps_argvstr;
   uint32_t ps_nargvstr;
   abi_ulong ps_envstr;
   uint32_t ps_nenvstr;
};

extern
 abi_ulong target_stkbas;
extern abi_ulong target_stksiz;

#define TARGET_PS_STRINGS  ((target_stkbas + target_stksiz) - \
                        sizeof(struct target_ps_strings))

#endif /* !TARGET_OS_VMPARAM_H_ */
```

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Version 2, June 1991

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```
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```
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```
/*
* Intel i386  sigcode for bsd-user
*
*  Copyright (c) 2013 Stacey D. Son
*
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*/
```

```
#ifndef _TARGET_ARCH_SIGTRAMP_H_
#define _TARGET_ARCH_SIGTRAMP_H_

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
      unsigned sys_sigreturn)
{

   return 0;
}
#endif /* _TARGET_ARCH_SIGTRAMP_H_ */
/* $NetBSD: syscall.h,v 1.215 2008/06/17 16:07:57 tsutsui Exp $ */

/*
* System call numbers.
*
* created from NetBSD: syscalls.master,v 1.204 2008/06/17 16:05:23 tsutsui Exp
*/

#define TARGET_NETBSD_NR_syscall     0
#define TARGET_NETBSD_NR_exit        1
#define TARGET_NETBSD_NR_fork        2
#define TARGET_NETBSD_NR_read        3
#define TARGET_NETBSD_NR_write       4
#define TARGET_NETBSD_NR_open        5
#define TARGET_NETBSD_NR_close       6
#define TARGET_NETBSD_NR_wait4       7
#define TARGET_NETBSD_NR_compat_43_ocreat    8
#define TARGET_NETBSD_NR_link        9
#define TARGET_NETBSD_NR_unlink      10
#define TARGET_NETBSD_NR_chdir       12
#define TARGET_NETBSD_NR_fchdir      13
#define TARGET_NETBSD_NR_mknod       14
#define TARGET_NETBSD_NR_chmod       15
#define TARGET_NETBSD_NR_chown       16
#define TARGET_NETBSD_NR_break       17
#define TARGET_NETBSD_NR_compat_20_getfsstat 18
#define TARGET_NETBSD_NR_compat_43_olseek    19
#define TARGET_NETBSD_NR_getpid      20
#define
 TARGET_NETBSD_NR_getpid      20
#define TARGET_NETBSD_NR_compat_40_mount     21
#define TARGET_NETBSD_NR_unmount     22
#define TARGET_NETBSD_NR_setuid      23
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_getuid      24
#define TARGET_NETBSD_NR_geteuid     25
#define TARGET_NETBSD_NR_ptrace      26
```

```
#define TARGET_NETBSD_NR_recvmsg     27
#define TARGET_NETBSD_NR_sendmsg     28
#define TARGET_NETBSD_NR_recvfrom    29
#define TARGET_NETBSD_NR_accept      30
#define TARGET_NETBSD_NR_getpeername 31
#define TARGET_NETBSD_NR_getsockname 32
#define TARGET_NETBSD_NR_access      33
#define TARGET_NETBSD_NR_chflags     34
#define TARGET_NETBSD_NR_fchflags    35
#define TARGET_NETBSD_NR_sync        36
#define TARGET_NETBSD_NR_kill        37
#define TARGET_NETBSD_NR_compat_43_stat43    38
#define TARGET_NETBSD_NR_getppid     39
#define TARGET_NETBSD_NR_compat_43_lstat43   40
#define TARGET_NETBSD_NR_dup 41
#define TARGET_NETBSD_NR_pipe        42
#define TARGET_NETBSD_NR_getegid
    43
#define TARGET_NETBSD_NR_profil      44
#define TARGET_NETBSD_NR_ktrace      45
#define TARGET_NETBSD_NR_compat_13_sigaction13       46
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_getgid      47
#define TARGET_NETBSD_NR_compat_13_sigprocmask13     48
#define TARGET_NETBSD_NR___getlogin  49
#define TARGET_NETBSD_NR___setlogin  50
#define TARGET_NETBSD_NR_acct        51
#define TARGET_NETBSD_NR_compat_13_sigpending13      52
#define TARGET_NETBSD_NR_compat_13_sigaltstack13     53
#define TARGET_NETBSD_NR_ioctl       54
#define TARGET_NETBSD_NR_compat_12_oreboot   55
#define TARGET_NETBSD_NR_revoke      56
#define TARGET_NETBSD_NR_symlink     57
#define TARGET_NETBSD_NR_readlink    58
#define TARGET_NETBSD_NR_execve      59
#define TARGET_NETBSD_NR_umask       60
#define TARGET_NETBSD_NR_chroot      61
#define TARGET_NETBSD_NR_compat_43_fstat43   62
#define TARGET_NETBSD_NR_compat_43_ogetkerninfo      63
#define TARGET_NETBSD_NR_compat_43_ogetpagesize
  64
#define TARGET_NETBSD_NR_compat_12_msync     65
#define TARGET_NETBSD_NR_vfork       66
#define TARGET_NETBSD_NR_sbrk        69
#define TARGET_NETBSD_NR_sstk        70
#define TARGET_NETBSD_NR_compat_43_ommap     71
#define TARGET_NETBSD_NR_vadvise     72
#define TARGET_NETBSD_NR_munmap      73
```

```
#define TARGET_NETBSD_NR_mprotect    74
#define TARGET_NETBSD_NR_madvise     75
#define TARGET_NETBSD_NR_mincore     78
#define TARGET_NETBSD_NR_getgroups   79
#define TARGET_NETBSD_NR_setgroups   80
#define TARGET_NETBSD_NR_getpgrp     81
#define TARGET_NETBSD_NR_setpgid     82
#define TARGET_NETBSD_NR_setitimer   83
#define TARGET_NETBSD_NR_compat_43_owait     84
#define TARGET_NETBSD_NR_compat_12_oswapon   85
#define TARGET_NETBSD_NR_getitimer   86
#define TARGET_NETBSD_NR_compat_43_ogethostname      87
#define TARGET_NETBSD_NR_compat_43_osethostname      88
#define TARGET_NETBSD_NR_compat_43_ogetdtablesize    89
#define TARGET_NETBSD_NR_dup2        90
#define TARGET_NETBSD_NR_fcntl
  92
#define TARGET_NETBSD_NR_select      93
#define TARGET_NETBSD_NR_fsync       95
#define TARGET_NETBSD_NR_setpriority 96
#define TARGET_NETBSD_NR_compat_30_socket    97
#define TARGET_NETBSD_NR_connect     98
#define TARGET_NETBSD_NR_compat_43_oaccept   99
#define TARGET_NETBSD_NR_getpriority 100
#define TARGET_NETBSD_NR_compat_43_osend     101
#define TARGET_NETBSD_NR_compat_43_orecv     102
#define TARGET_NETBSD_NR_compat_13_sigreturn13       103
#define TARGET_NETBSD_NR_bind        104
#define TARGET_NETBSD_NR_setsockopt  105
#define TARGET_NETBSD_NR_listen      106
#define TARGET_NETBSD_NR_compat_43_osigvec   108
#define TARGET_NETBSD_NR_compat_43_osigblock 109
#define TARGET_NETBSD_NR_compat_43_osigsetmask       110
#define TARGET_NETBSD_NR_compat_13_sigsuspend13      111
#define TARGET_NETBSD_NR_compat_43_osigstack 112
#define TARGET_NETBSD_NR_compat_43_orecvmsg  113
#define TARGET_NETBSD_NR_compat_43_osendmsg  114
#define TARGET_NETBSD_NR_gettimeofday        116
#define TARGET_NETBSD_NR_getrusage
   117
#define TARGET_NETBSD_NR_getsockopt  118
#define TARGET_NETBSD_NR_readv       120
#define TARGET_NETBSD_NR_writev      121
#define TARGET_NETBSD_NR_settimeofday        122
#define TARGET_NETBSD_NR_fchown      123
#define TARGET_NETBSD_NR_fchmod      124
#define TARGET_NETBSD_NR_compat_43_orecvfrom 125
#define TARGET_NETBSD_NR_setreuid    126
```

```
#define TARGET_NETBSD_NR_setregid    127
#define TARGET_NETBSD_NR_rename      128
#define TARGET_NETBSD_NR_compat_43_otruncate 129
#define TARGET_NETBSD_NR_compat_43_oftruncate        130
#define TARGET_NETBSD_NR_flock       131
#define TARGET_NETBSD_NR_mkfifo      132
#define TARGET_NETBSD_NR_sendto      133
#define TARGET_NETBSD_NR_shutdown    134
#define TARGET_NETBSD_NR_socketpair  135
#define TARGET_NETBSD_NR_mkdir       136
#define TARGET_NETBSD_NR_rmdir       137
#define TARGET_NETBSD_NR_utimes      138
#define TARGET_NETBSD_NR_adjtime     140
#define TARGET_NETBSD_NR_compat_43_ogetpeername      141
#define TARGET_NETBSD_NR_compat_43_ogethostid
        142
#define TARGET_NETBSD_NR_compat_43_osethostid        143
#define TARGET_NETBSD_NR_compat_43_ogetrlimit        144
#define TARGET_NETBSD_NR_compat_43_osetrlimit        145
#define TARGET_NETBSD_NR_compat_43_okillpg   146
#define TARGET_NETBSD_NR_setsid      147
#define TARGET_NETBSD_NR_quotactl    148
#define TARGET_NETBSD_NR_compat_43_oquota    149
#define TARGET_NETBSD_NR_compat_43_ogetsockname      150
#define TARGET_NETBSD_NR_nfssvc      155
#define TARGET_NETBSD_NR_compat_43_ogetdirentries    156
#define TARGET_NETBSD_NR_compat_20_statfs    157
#define TARGET_NETBSD_NR_compat_20_fstatfs   158
#define TARGET_NETBSD_NR_compat_30_getfh     161
#define TARGET_NETBSD_NR_compat_09_ogetdomainname    162
#define TARGET_NETBSD_NR_compat_09_osetdomainname    163
#define TARGET_NETBSD_NR_compat_09_ouname    164
#define TARGET_NETBSD_NR_sysarch     165
#define TARGET_NETBSD_NR_compat_10_osemsys   169
#define TARGET_NETBSD_NR_compat_10_omsgsys   170
#define
 TARGET_NETBSD_NR_compat_10_oshmsys   171
#define TARGET_NETBSD_NR_pread       173
#define TARGET_NETBSD_NR_pwrite      174
#define TARGET_NETBSD_NR_compat_30_ntp_gettime       175
#define TARGET_NETBSD_NR_ntp_adjtime 176
#define TARGET_NETBSD_NR_setgid      181
#define TARGET_NETBSD_NR_setegid     182
#define TARGET_NETBSD_NR_seteuid     183
#define TARGET_NETBSD_NR_lfs_bmapv   184
#define TARGET_NETBSD_NR_lfs_markv   185
#define TARGET_NETBSD_NR_lfs_segclean        186
#define TARGET_NETBSD_NR_lfs_segwait 187
```

```
#define TARGET_NETBSD_NR_compat_12_stat12    188
#define TARGET_NETBSD_NR_compat_12_fstat12   189
#define TARGET_NETBSD_NR_compat_12_lstat12   190
#define TARGET_NETBSD_NR_pathconf    191
#define TARGET_NETBSD_NR_fpathconf   192
#define TARGET_NETBSD_NR_getrlimit   194
#define TARGET_NETBSD_NR_setrlimit   195
#define TARGET_NETBSD_NR_compat_12_getdirentries     196
#define TARGET_NETBSD_NR_mmap        197
#define TARGET_NETBSD_NR___syscall   198
#define TARGET_NETBSD_NR_lseek
    199
#define TARGET_NETBSD_NR_truncate    200
#define TARGET_NETBSD_NR_ftruncate   201
#define TARGET_NETBSD_NR___sysctl    202
#define TARGET_NETBSD_NR_mlock       203
#define TARGET_NETBSD_NR_munlock     204
#define TARGET_NETBSD_NR_undelete    205
#define TARGET_NETBSD_NR_futimes     206
#define TARGET_NETBSD_NR_getpgid     207
#define TARGET_NETBSD_NR_reboot      208
#define TARGET_NETBSD_NR_poll        209
#define TARGET_NETBSD_NR_compat_14___semctl  220
#define TARGET_NETBSD_NR_semget      221
#define TARGET_NETBSD_NR_semop       222
#define TARGET_NETBSD_NR_semconfig   223
#define TARGET_NETBSD_NR_compat_14_msgctl    224
#define TARGET_NETBSD_NR_msgget      225
#define TARGET_NETBSD_NR_msgsnd      226
#define TARGET_NETBSD_NR_msgrcv      227
#define TARGET_NETBSD_NR_shmat       228
#define TARGET_NETBSD_NR_compat_14_shmctl    229
#define TARGET_NETBSD_NR_shmdt       230
#define TARGET_NETBSD_NR_shmget      231
#define TARGET_NETBSD_NR_clock_gettime       232
#define TARGET_NETBSD_NR_clock_settime
    233
#define TARGET_NETBSD_NR_clock_getres        234
#define TARGET_NETBSD_NR_timer_create        235
#define TARGET_NETBSD_NR_timer_delete        236
#define TARGET_NETBSD_NR_timer_settime       237
#define TARGET_NETBSD_NR_timer_gettime       238
#define TARGET_NETBSD_NR_timer_getoverrun    239
#define TARGET_NETBSD_NR_nanosleep   240
#define TARGET_NETBSD_NR_fdatasync   241
#define TARGET_NETBSD_NR_mlockall    242
#define TARGET_NETBSD_NR_munlockall  243
#define TARGET_NETBSD_NR___sigtimedwait      244
```

```
#define TARGET_NETBSD_NR_modctl      246
#define TARGET_NETBSD_NR__ksem_init  247
#define TARGET_NETBSD_NR__ksem_open  248
#define TARGET_NETBSD_NR__ksem_unlink        249
#define TARGET_NETBSD_NR__ksem_close 250
#define TARGET_NETBSD_NR__ksem_post  251
#define TARGET_NETBSD_NR__ksem_wait  252
#define TARGET_NETBSD_NR__ksem_trywait       253
#define TARGET_NETBSD_NR__ksem_getvalue      254
#define TARGET_NETBSD_NR__ksem_destroy       255
#define TARGET_NETBSD_NR_mq_open
    257
#define TARGET_NETBSD_NR_mq_close    258
#define TARGET_NETBSD_NR_mq_unlink   259
#define TARGET_NETBSD_NR_mq_getattr  260
#define TARGET_NETBSD_NR_mq_setattr  261
#define TARGET_NETBSD_NR_mq_notify   262
#define TARGET_NETBSD_NR_mq_send     263
#define TARGET_NETBSD_NR_mq_receive  264
#define TARGET_NETBSD_NR_mq_timedsend        265
#define TARGET_NETBSD_NR_mq_timedreceive     266
#define TARGET_NETBSD_NR___posix_rename      270
#define TARGET_NETBSD_NR_swapctl     271
#define TARGET_NETBSD_NR_compat_30_getdents  272
#define TARGET_NETBSD_NR_minherit    273
#define TARGET_NETBSD_NR_lchmod      274
#define TARGET_NETBSD_NR_lchown      275
#define TARGET_NETBSD_NR_lutimes     276
#define TARGET_NETBSD_NR___msync13   277
#define TARGET_NETBSD_NR_compat_30___stat13  278
#define TARGET_NETBSD_NR_compat_30___fstat13 279
#define TARGET_NETBSD_NR_compat_30___lstat13 280
#define TARGET_NETBSD_NR___sigaltstack14     281
#define TARGET_NETBSD_NR___vfork14   282
#define
 TARGET_NETBSD_NR___posix_chown       283
#define TARGET_NETBSD_NR___posix_fchown      284
#define TARGET_NETBSD_NR___posix_lchown      285
#define TARGET_NETBSD_NR_getsid      286
#define TARGET_NETBSD_NR___clone     287
#define TARGET_NETBSD_NR_fktrace     288
#define TARGET_NETBSD_NR_preadv      289
#define TARGET_NETBSD_NR_pwritev     290
#define TARGET_NETBSD_NR_compat_16___sigaction14     291
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#define TARGET_NETBSD_NR_pset_assign 414
#define TARGET_NETBSD_NR__pset_bind  415
#define TARGET_NETBSD_NR___posix_fadvise50   416
/*
*  System call related declarations
*
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*/

#ifndef _SYSCALL_DEFS_H_
#define _SYSCALL_DEFS_H_

#include <sys/syscall.h>

#include "errno_defs.h"

#include "freebsd/syscall_nr.h"
#include "netbsd/syscall_nr.h"
#include "openbsd/syscall_nr.h"

/*
* machine/_types.h
```

```
* or x86/_types.h
 */

/*
* time_t seems to be very inconsistly defined for the different *BSD's...
*
* FreeBSD uses a 64bits time_t except on i386
* so we have to add a special case here.
*
* On NetBSD time_t is always defined as an int64_t.  On OpenBSD time_t
* is always defined as an int.
*
*/
#if (!defined(TARGET_I386))
typedef int64_t target_freebsd_time_t;
#else
typedef int32_t target_freebsd_time_t;
#endif

struct target_iovec {
   abi_long iov_base;   /* Starting address */
   abi_long iov_len;   /* Number of bytes */
};

/*
*  sys/mman.h
*/
#define TARGET_FREEBSD_MAP_RESERVED0080 0x0080  /* previously misimplemented */
                                        /* MAP_INHERIT */
#define TARGET_FREEBSD_MAP_RESERVED0100 0x0100  /* previously unimplemented */
                                        /* MAP_NOEXTEND */
#define TARGET_FREEBSD_MAP_STACK        0x0400  /* region grows down, like a */
                                        /* stack */
#define TARGET_FREEBSD_MAP_NOSYNC
      0x0800  /* page to but do not sync */
                                        /* underlying file */

#define TARGET_FREEBSD_MAP_FLAGMASK     0x1ff7

#define TARGET_NETBSD_MAP_INHERIT       0x0080  /* region is retained after */
                                        /* exec */
#define TARGET_NETBSD_MAP_TRYFIXED      0x0400  /* attempt hint address, even */
                                        /* within break */
#define TARGET_NETBSD_MAP_WIRED         0x0800  /* mlock() mapping when it is */
                                        /* established */

#define TARGET_NETBSD_MAP_STACK         0x2000  /* allocated from memory, */
                                        /* swap space (stack) */
```

```
#define TARGET_NETBSD_MAP_FLAGMASK      0x3ff7

#define TARGET_OPENBSD_MAP_INHERIT      0x0080  /* region is retained after */
                                        /* exec */
#define TARGET_OPENBSD_MAP_NOEXTEND     0x0100
  /* for MAP_FILE, don't change */
                                        /* file size */
#define TARGET_OPENBSD_MAP_TRYFIXED     0x0400  /* attempt hint address, */
                                        /* even within heap */

#define TARGET_OPENBSD_MAP_FLAGMASK     0x17f7

/* XXX */
#define TARGET_BSD_MAP_FLAGMASK         0x3ff7

/*
* sys/time.h
* sys/timex.h
*/

typedef abi_long target_freebsd_suseconds_t;

/* compare to sys/timespec.h */
struct target_freebsd_timespec {
   target_freebsd_time_t   tv_sec;     /* seconds */
   abi_long                tv_nsec;    /* and nanoseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
   abi_long _pad;
#endif
};

#define TARGET_CPUCLOCK_WHICH_PID   0
#define TARGET_CPUCLOCK_WHICH_TID   1

/* sys/umtx.h */
struct target_freebsd__umtx_time {
   struct target_freebsd_timespec  _timeout;
   uint32_t    _flags;
   uint32_t    _clockid;
};

struct target_freebsd_timeval {
   target_freebsd_time_t       tv_sec; /*
 seconds */
   target_freebsd_suseconds_t  tv_usec;/* and microseconds */
#if !defined(TARGET_I386) && TARGET_ABI_BITS == 32
   abi_long _pad;
```

```
#endif
};

/*
*  sys/resource.h
*/
#if defined(__FreeBSD__)
#define TARGET_RLIM_INFINITY    RLIM_INFINITY
#else
#define TARGET_RLIM_INFINITY    ((abi_ulong)-1)
#endif

#define TARGET_RLIMIT_CPU       0
#define TARGET_RLIMIT_FSIZE     1
#define TARGET_RLIMIT_DATA      2
#define TARGET_RLIMIT_STACK     3
#define TARGET_RLIMIT_CORE      4
#define TARGET_RLIMIT_RSS       5
#define TARGET_RLIMIT_MEMLOCK   6
#define TARGET_RLIMIT_NPROC     7
#define TARGET_RLIMIT_NOFILE    8
#define TARGET_RLIMIT_SBSIZE    9
#define TARGET_RLIMIT_AS        10
#define TARGET_RLIMIT_NPTS      11
#define TARGET_RLIMIT_SWAP      12

struct target_rlimit {
  uint64_t rlim_cur;
  uint64_t rlim_max;
};

struct target_freebsd_rusage {
  struct target_freebsd_timeval ru_utime; /* user time used */
  struct target_freebsd_timeval ru_stime; /* system time used */

  abi_long    ru_maxrss;      /* maximum resident set size */
  abi_long    ru_ixrss;       /* integral shared memory size */
  abi_long    ru_idrss;       /* integral unshared data size */
  abi_long    ru_isrss;       /* integral unshared stack size */
  abi_long    ru_minflt;      /* page reclaims */
  abi_long    ru_majflt;      /* page faults */
  abi_long    ru_nswap;       /* swaps */
  abi_long    ru_inblock;     /* block input operations */
  abi_long    ru_oublock;     /* block output operations */
  abi_long    ru_msgsnd;      /* messages sent */
  abi_long    ru_msgrcv;      /* messages received */
  abi_long    ru_nsignals;    /* signals received */
  abi_long    ru_nvcsw;       /* voluntary context switches */
```

```
  abi_long    ru_nivcsw;      /* involuntary context switches */
};

struct target_freebsd__wrusage {
  struct target_freebsd_rusage wru_self;
  struct target_freebsd_rusage wru_children;
};

#endif /* ! _SYSCALL_DEFS_H_ */
```

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*/

#ifndef _TARGET_OS_STACK_H_
#define _TARGET_OS_STACK_H_

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
  abi_ulong *stringp)
{
  int i;
  abi_ulong stack_base;

  stack_base
 = (target_stkbas + target_stksiz) -
              MAX_ARG_PAGES * TARGET_PAGE_SIZE;
  if (p) {
      *p = stack_base;
  }
  if (stringp) {
      *stringp = stack_base;
  }

  for (i = 0; i < MAX_ARG_PAGES; i++) {
      if (bprm->page[i]) {
          info->rss++;
```

```
        if (!memcpy_to_target(stack_base, bprm->page[i],
                TARGET_PAGE_SIZE)) {
            errno = EFAULT;
            return -1;
        }
        g_free(bprm->page[i]);
    }
    stack_base += TARGET_PAGE_SIZE;
  }

  return 0;
}

#endif /* !_TARGET_OS_STACK_H_ */
/*
*  i386 sysarch system call emulation
*
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*/

#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
    abi_ulong parms)
{
  abi_long ret = 0;
  abi_ulong val;
  int idx;

  switch
 (op) {
  case TARGET_FREEBSD_I386_SET_GSBASE:
```

```
    case TARGET_FREEBSD_I386_SET_FSBASE:
        if (op == TARGET_FREEBSD_I386_SET_GSBASE) {
            idx = R_GS;
        } else {
            idx = R_FS;
        }
        if (get_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        cpu_x86_load_seg(env, idx, 0);
        env->segs[idx].base = val;
        break;

    case TARGET_FREEBSD_I386_GET_GSBASE:
    case TARGET_FREEBSD_I386_GET_FSBASE:
        if (op == TARGET_FREEBSD_I386_GET_GSBASE) {
            idx = R_GS;
        } else {
            idx = R_FS;
        }
        val = env->segs[idx].base;
        if (put_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        break;

    /* XXX handle the others... */
    default:
        ret = -TARGET_EINVAL;
        break;
    }
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,

    abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

    gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
        TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /* !BSD_USER_ARCH_SYSARCH_H_ */
#ifndef _TARGET_OS_SIGINFO_H_
#define _TARGET_OS_SIGINFO_H_
```

```
#define TARGET_NSIG     32  /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
   abi_long    ss_sp;
   abi_ulong   ss_size;
   abi_long    ss_flags;
} target_stack_t;

typedef struct {
   uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
   abi_ulong   _sa_handler;
   int32_t     sa_flags;
   target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
   int         sival_int;
   abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
   int32_t     _signo;
   int32_t     _code;
   int32_t     _errno;
#if TARGET_ABI_BITS == 64
   int32_t     _pad;
#endif
   union {
      struct {
         int32_t             _pid;
         int32_t
           _uid;
         target_sigval_t    _value;
      } _rt;

      struct {
         int32_t             _pid;
         int32_t             _uid;
         int32_t             _struct;
         /* clock_t          _utime; */
         /* clock_t          _stime; */
```

```
      } _child;

      struct {
          abi_ulong           _addr;
          int32_t             _trap;
      } _fault;

      struct {
          long                _band;
          int                 _fd;
      } _poll;
   } _reason;
};

typedef union target_siginfo {
   int8_t     si_pad[128];
   struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
#define TARGET_TRAP_TRACE   2


#endif /* ! _TARGET_OS_SIGINFO_H_
 */
TARGET_ARCH=x86_64
TARGET_BASE_ARCH=i386
TARGET_XML_FILES= gdb-xml/i386-64bit.xml
/*
*  FreeBSD siginfo related definitions
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
#ifndef _TARGET_OS_SIGINFO_H_
#define _TARGET_OS_SIGINFO_H_

#define TARGET_NSIG         128
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)

/* this struct defines a stack used during syscall
 handling */
typedef struct target_sigaltstack {
   abi_long    ss_sp;
   abi_ulong   ss_size;
   abi_long    ss_flags;
} target_stack_t;

typedef struct {
   uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t;

struct target_sigaction {
   abi_ulong   _sa_handler;
   int32_t     sa_flags;
   target_sigset_t sa_mask;
};

typedef union target_sigval {
   int32_t sival_int;
   abi_ulong sival_ptr;
   int32_t sigval_int;
   abi_ulong sigval_ptr;
} target_sigval_t;

typedef struct target_siginfo {
   int32_t si_signo;   /* signal number */
   int32_t si_errno;   /* errno association */
   int32_t si_code;    /* signal code */
   int32_t si_pid;     /* sending process */
   int32_t si_uid;     /* sender's ruid */
   int32_t si_status;  /* exit value */
   abi_ulong si_addr;  /* faulting instruction */
   union target_sigval si_value;   /* signal value */
   union {
```

```
        struct {
            int32_t _trapno;    /* machine specific trap code */
        } _fault;


      /* POSIX.1b timers */
        struct {
            int32_t _timerid;
            int32_t _overrun;
        } _timer;

        struct {
            int32_t _mqd;
        } _mesgp;

        /* SIGPOLL */
        struct {
            int _band;  /* POLL_IN, POLL_OUT, POLL_MSG */
        } _poll;

        struct {
            abi_long __spare1__;
            int32_t  __spare2_[7];
        } __spare__;
    } _reason;
} target_siginfo_t;

struct target_sigevent {
    abi_int sigev_notify;
    abi_int sigev_signo;
    target_sigval_t sigev_value;
    union {
        abi_int _threadid;

        /*
         * The kernel (and thus QEMU) never looks at these;
         * they're only used as part of the ABI between a
         * userspace program and libc.
         */
        struct {
            abi_ulong _function;
            abi_ulong _attribute;
        } _sigev_thread;
        abi_ushort _kevent_flags;
        abi_long _pad[8];
    } _sigev_un;
};
```

```
#define target_si_signo     si_signo
#define
 target_si_code      si_code
#define target_si_errno     si_errno
#define target_si_addr      si_addr

/* SIGILL si_codes */
#define TARGET_ILL_ILLOPC   (1) /* Illegal opcode. */
#define TARGET_ILL_ILLOPN   (2) /* Illegal operand. */
#define TARGET_ILL_ILLADR   (3) /* Illegal addressing mode. */
#define TARGET_ILL_ILLTRP   (4) /* Illegal trap. */
#define TARGET_ILL_PRVOPC   (5) /* Privileged opcode. */
#define TARGET_ILL_PRVREG   (6) /* Privileged register. */
#define TARGET_ILL_COPROC   (7) /* Coprocessor error. */
#define TARGET_ILL_BADSTK   (8) /* Internal stack error. */

/* SIGSEGV si_codes */
#define TARGET_SEGV_MAPERR  (1) /* address not mapped to object */
#define TARGET_SEGV_ACCERR  (2) /* invalid permissions for mapped object */

/* SIGTRAP si_codes */
#define TARGET_TRAP_BRKPT   (1) /* process beakpoint */
#define TARGET_TRAP_TRACE   (2) /* process trace trap */

/* SIGBUS si_codes */
#define TARGET_BUS_ADRALN   (1)
#define TARGET_BUS_ADRERR   (2)
#define TARGET_BUS_OBJERR
   (3)

/* SIGFPE codes */
#define TARGET_FPE_INTOVF   (1) /* Integer overflow. */
#define TARGET_FPE_INTDIV   (2) /* Integer divide by zero. */
#define TARGET_FPE_FLTDIV   (3) /* Floating point divide by zero. */
#define TARGET_FPE_FLTOVF   (4) /* Floating point overflow. */
#define TARGET_FPE_FLTUND   (5) /* Floating point underflow. */
#define TARGET_FPE_FLTRES   (6) /* Floating point inexact result. */
#define TARGET_FPE_FLTINV   (7) /* Invalid floating point operation. */
#define TARGET_FPE_FLTSUB   (8) /* Subscript out of range. */

#endif /* !_TARGET_OS_SIGINFO_H_ */
/*
*  x86_64 cpu init and loop
*
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```
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*/

#ifndef _TARGET_ARCH_CPU_H_
#define _TARGET_ARCH_CPU_H_

#include "target_arch.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu64"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
  uint64_t *gdt_table;

  env->cr[0] = CR0_PG_MASK | CR0_WP_MASK | CR0_PE_MASK;
   env->hflags |= HF_PE_MASK | HF_CPL_MASK;
  if (env->features[FEAT_1_EDX] & CPUID_SSE) {
      env->cr[4] |= CR4_OSFXSR_MASK;
      env->hflags |= HF_OSFXSR_MASK;
  }

  /* enable 64 bit mode if possible */
  if (!(env->features[FEAT_8000_0001_EDX] & CPUID_EXT2_LM)) {
      fprintf(stderr, "The selected x86 CPU does not support 64 bit mode\n");
      exit(1);
  }
  env->cr[4] |= CR4_PAE_MASK;
  env->efer |= MSR_EFER_LMA | MSR_EFER_LME;
  env->hflags |= HF_LMA_MASK;

  /* flags setup : we activate the IRQs by default as in user mode */
  env->eflags |= IF_MASK;

  /* register setup */
  env->regs[R_EAX] = regs->rax;
  env->regs[R_EBX] = regs->rbx;
  env->regs[R_ECX] = regs->rcx;
  env->regs[R_EDX] = regs->rdx;
  env->regs[R_ESI] = regs->rsi;
```

```
  env->regs[R_EDI] = regs->rdi;
  env->regs[R_EBP] = regs->rbp;
  env->regs[R_ESP] = regs->rsp;
  env->eip = regs->rip;

  /* interrupt setup */
  env->idt.limit = 511;

  env->idt.base = target_mmap(0,
sizeof(uint64_t) * (env->idt.limit + 1),
      PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  bsd_x86_64_set_idt_base(env->idt.base);
  bsd_x86_64_set_idt(0, 0);
  bsd_x86_64_set_idt(1, 0);
  bsd_x86_64_set_idt(2, 0);
  bsd_x86_64_set_idt(3, 3);
  bsd_x86_64_set_idt(4, 3);
  bsd_x86_64_set_idt(5, 0);
  bsd_x86_64_set_idt(6, 0);
  bsd_x86_64_set_idt(7, 0);
  bsd_x86_64_set_idt(8, 0);
  bsd_x86_64_set_idt(9, 0);
  bsd_x86_64_set_idt(10, 0);
  bsd_x86_64_set_idt(11, 0);
  bsd_x86_64_set_idt(12, 0);
  bsd_x86_64_set_idt(13, 0);
  bsd_x86_64_set_idt(14, 0);
  bsd_x86_64_set_idt(15, 0);
  bsd_x86_64_set_idt(16, 0);
  bsd_x86_64_set_idt(17, 0);
  bsd_x86_64_set_idt(18, 0);
  bsd_x86_64_set_idt(19, 0);
  bsd_x86_64_set_idt(0x80, 3);

  /* segment setup */
  env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
        PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  env->gdt.limit =
sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
  gdt_table = g2h_untagged(env->gdt.base);

  /* 64 bit code segment */
  bsd_x86_64_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK | DESC_L_MASK
        | (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

  bsd_x86_64_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
```

```
        (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

  cpu_x86_load_seg(env, R_CS, __USER_CS);
  cpu_x86_load_seg(env, R_SS, __USER_DS);
  cpu_x86_load_seg(env, R_DS, 0);
  cpu_x86_load_seg(env, R_ES, 0);
  cpu_x86_load_seg(env, R_FS, 0);
  cpu_x86_load_seg(env, R_GS, 0);
}

static inline void target_cpu_loop(CPUX86State *env)
{
  CPUState *cs = env_cpu(env);
  int trapnr;
  abi_ulong pc;
  /* target_siginfo_t info; */

  for (;;) {
    cpu_exec_start(cs);
    trapnr = cpu_exec(cs);
    cpu_exec_end(cs);
     process_queued_cpu_work(cs);

    switch (trapnr) {
    case 0x80:
      /* syscall from int $0x80 */
      if (bsd_type == target_freebsd) {
        abi_ulong params = (abi_ulong) env->regs[R_ESP] +
          sizeof(int32_t);
        int32_t syscall_nr = env->regs[R_EAX];
        int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

        if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
          get_user_s32(syscall_nr, params);
          params += sizeof(int32_t);
        } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
          get_user_s32(syscall_nr, params);
          params += sizeof(int64_t);
        }
        get_user_s32(arg1, params);
        params += sizeof(int32_t);
        get_user_s32(arg2, params);
        params += sizeof(int32_t);
        get_user_s32(arg3, params);

    params += sizeof(int32_t);
        get_user_s32(arg4, params);
        params += sizeof(int32_t);
```

```
        get_user_s32(arg5, params);
        params += sizeof(int32_t);
        get_user_s32(arg6, params);
        params += sizeof(int32_t);
        get_user_s32(arg7, params);
        params += sizeof(int32_t);
        get_user_s32(arg8, params);
        env->regs[R_EAX] = do_freebsd_syscall(env,
                                    syscall_nr,
                                    arg1,
                                    arg2,
                                    arg3,
                                    arg4,
                                    arg5,
                                    arg6,
                                    arg7,

                arg8);
    } else { /* if (bsd_type == target_openbsd) */
        env->regs[R_EAX] = do_openbsd_syscall(env,
                                    env->regs[R_EAX],
                                    env->regs[R_EBX],
                                    env->regs[R_ECX],
                                    env->regs[R_EDX],
                                    env->regs[R_ESI],
                                    env->regs[R_EDI],
                                    env->regs[R_EBP]);
    }
    if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
        env->regs[R_EAX] = -env->regs[R_EAX];
        env->eflags |= CC_C;
    } else {
        env->eflags &= ~CC_C;
    }
    break;

case EXCP_SYSCALL:
    /* syscall from syscall instruction */
     if (bsd_type == target_freebsd) {
        env->regs[R_EAX] = do_freebsd_syscall(env,
                                    env->regs[R_EAX],
                                    env->regs[R_EDI],
                                    env->regs[R_ESI],
                                    env->regs[R_EDX],
                                    env->regs[R_ECX],
                                    env->regs[8],
                                    env->regs[9], 0, 0);
    } else { /* if (bsd_type == target_openbsd) */
```

```
            env->regs[R_EAX] = do_openbsd_syscall(env,
                                        env->regs[R_EAX],
                                        env->regs[R_EDI],
                                        env->regs[R_ESI],
                                        env->regs[R_EDX],
                                         env->regs[10],
                                        env->regs[8],
                                        env->regs[9]);
        }
        env->eip = env->exception_next_eip;
        if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
            env->regs[R_EAX] = -env->regs[R_EAX];
            env->eflags |= CC_C;
        } else {
            env->eflags &= ~CC_C;
        }
        break;

    case EXCP_INTERRUPT:
        /* just indicate that signals should be handled asap */
        break;

    case EXCP_ATOMIC:
        cpu_exec_step_atomic(cs);
        break;

    default:
        pc = env->segs[R_CS].base + env->eip;
        fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                "aborting\n", (long)pc, trapnr);
        abort();
    }
    process_pending_signals(env);
  }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
{
  if (newsp) {
    env->regs[R_ESP] = newsp;
  }
  env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *cpu)
{
  cpu_reset(env_cpu(cpu));
}
```

```
#endif /* ! _TARGET_ARCH_CPU_H_ */
/*
*  i386 system call definitions
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/
#ifndef TARGET_SYSCALL_H
#define TARGET_SYSCALL_H

/* default linux values for the selectors */
#define __USER_CS (0x23)
#define __USER_DS (0x2B)

struct target_pt_regs {
 long ebx;
 long ecx;
 long edx;
 long esi;
 long edi;
 long ebp;
 long eax;
 int  xds;
 int  xes;
 long orig_eax;
 long eip;
 int
  xcs;
 long eflags;
 long esp;
 int  xss;
};

/* ioctls */

#define TARGET_LDT_ENTRIES      8192
```

```
#define TARGET_LDT_ENTRY_SIZE 8

#define TARGET_GDT_ENTRIES            9
#define TARGET_GDT_ENTRY_TLS_ENTRIES   3
#define TARGET_GDT_ENTRY_TLS_MIN       6
#define TARGET_GDT_ENTRY_TLS_MAX       (TARGET_GDT_ENTRY_TLS_MIN +
TARGET_GDT_ENTRY_TLS_ENTRIES - 1)

struct target_modify_ldt_ldt_s {
  unsigned int  entry_number;
  abi_ulong base_addr;
  unsigned int limit;
  unsigned int flags;
};

/* vm86 defines */

#define TARGET_BIOSSEG  0x0f000

#define TARGET_CPU_086  0
#define TARGET_CPU_186  1
#define TARGET_CPU_286  2
#define TARGET_CPU_386  3
#define TARGET_CPU_486  4
#define TARGET_CPU_586  5

#define TARGET_VM86_SIGNAL 0 /* return due to signal */
#define TARGET_VM86_UNKNOWN 1 /* unhandled GP fault - IO-instruction or similar */
#define TARGET_VM86_INTx 2 /* int3/int x instruction (ARG = x) */
#define TARGET_VM86_STI 3 /* sti/popf/iret instruction enabled virtual interrupts */

/*
 * Additional return values when invoking new vm86()
*/
#define TARGET_VM86_PICRETURN 4 /* return due to pending PIC request */
#define TARGET_VM86_TRAP 6 /* return due to DOS-debugger request */

/*
* function codes when invoking new vm86()
*/
#define TARGET_VM86_PLUS_INSTALL_CHECK 0
#define TARGET_VM86_ENTER  1
#define TARGET_VM86_ENTER_NO_BYPASS 2
#define TARGET_VM86_REQUEST_IRQ 3
#define TARGET_VM86_FREE_IRQ  4
#define TARGET_VM86_GET_IRQ_BITS 5
#define TARGET_VM86_GET_AND_RESET_IRQ 6
```

```
/*
* This is the stack-layout seen by the user space program when we have
* done a translation of "SAVE_ALL" from vm86 mode. The real kernel layout
* is 'kernel_vm86_regs' (see below).
*/

struct target_vm86_regs {
/*
* normal regs, with special meaning for the segment descriptors..
*/
 abi_long ebx;
 abi_long ecx;
 abi_long edx;
 abi_long esi;
 abi_long edi;
 abi_long ebp;
 abi_long eax;
 abi_long __null_ds;
 abi_long __null_es;
 abi_long __null_fs;
 abi_long __null_gs;
 abi_long orig_eax;
 abi_long
 eip;
 unsigned short cs, __csh;
 abi_long eflags;
 abi_long esp;
 unsigned short ss, __ssh;
/*
* these are specific to v86 mode:
*/
 unsigned short es, __esh;
 unsigned short ds, __dsh;
 unsigned short fs, __fsh;
 unsigned short gs, __gsh;
};

struct target_revectored_struct {
 abi_ulong __map[8];   /* 256 bits */
};

struct target_vm86_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
```

```
};

/*
* flags masks
*/
#define TARGET_VM86_SCREEN_BITMAP 0x0001

struct target_vm86plus_info_struct {
       abi_ulong flags;
#define TARGET_force_return_for_pic (1 << 0)
#define TARGET_vm86dbg_active       (1 << 1)  /* for debugger */
#define TARGET_vm86dbg_TFpendig     (1 << 2)  /* for debugger */
#define TARGET_is_vm86pus           (1 << 31) /* for vm86 internal use */
 unsigned char vm86dbg_intxxtab[32];   /* for debugger */
};

struct
 target_vm86plus_struct {
 struct target_vm86_regs regs;
 abi_ulong flags;
 abi_ulong screen_bitmap;
 abi_ulong cpu_type;
 struct target_revectored_struct int_revectored;
 struct target_revectored_struct int21_revectored;
 struct target_vm86plus_info_struct vm86plus;
};

/* FreeBSD sysarch(2) */
#define TARGET_FREEBSD_I386_GET_LDT 0
#define TARGET_FREEBSD_I386_SET_LDT 1
    /* I386_IOPL */
#define TARGET_FREEBSD_I386_GET_IOPERM 3
#define TARGET_FREEBSD_I386_SET_IOPERM 4
    /* xxxxx */
#define TARGET_FREEBSD_I386_VM86 6
#define TARGET_FREEBSD_I386_GET_FSBASE 7
#define TARGET_FREEBSD_I386_SET_FSBASE 8
#define TARGET_FREEBSD_I386_GET_GSBASE 9
#define TARGET_FREEBSD_I386_SET_GSBASE 10


#define UNAME_MACHINE "i386"
#define TARGET_HW_MACHINE UNAME_MACHINE
#define TARGET_HW_MACHINE_ARCH UNAME_MACHINE

#endif /* TARGET_SYSCALL_H */
/*
*  x86_64 sysarch() syscall emulation
```

```
*
*
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*  it under the terms of the GNU General Public License as published by
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/

#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"

static inline abi_long do_freebsd_arch_sysarch(CPUX86State *env, int op,
      abi_ulong parms)
{
  abi_long ret = 0;
  abi_ulong val;
  int idx;

  switch (op) {
  case TARGET_FREEBSD_AMD64_SET_GSBASE:
   case TARGET_FREEBSD_AMD64_SET_FSBASE:
     if (op == TARGET_FREEBSD_AMD64_SET_GSBASE) {
         idx = R_GS;
     } else {
         idx = R_FS;
     }
     if (get_user(val, parms, abi_ulong)) {
         return -TARGET_EFAULT;
     }
     cpu_x86_load_seg(env, idx, 0);
     env->segs[idx].base = val;
     break;

  case TARGET_FREEBSD_AMD64_GET_GSBASE:
  case TARGET_FREEBSD_AMD64_GET_FSBASE:
     if (op == TARGET_FREEBSD_AMD64_GET_GSBASE) {
         idx = R_GS;
     } else {
```

```
            idx = R_FS;
        }
        val = env->segs[idx].base;
        if (put_user(val, parms, abi_ulong)) {
            return -TARGET_EFAULT;
        }
        break;

    /* XXX handle the others... */
    default:
        ret = -TARGET_EINVAL;
        break;
    }
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4,
 abi_long arg5, abi_long arg6)
{

    gemu_log("%s(%d, " TARGET_ABI_FMT_lx ", " TARGET_ABI_FMT_lx ", "
        TARGET_ABI_FMT_lx ")", name->name, (int)arg1, arg2, arg3, arg4);
}

#endif /*! BSD_USER_ARCH_SYSARCH_H_ */
Index: debug.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/debug.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- debug.c 7 Sep 2007 10:01:21 -0000 1.1
+++ debug.c 15 Jan 2008 13:49:25 -0000 1.3
@@ -52,7 +52,11 @@
void X86EMU_trace_regs (void)
{
    if (DEBUG_TRACE()) {
-       x86emu_dump_regs();
+ if (M.x86.mode & (SYSMODE_PREFIX_DATA | SYSMODE_PREFIX_ADDR)) {
+       x86emu_dump_xregs();
+ } else {
+       x86emu_dump_regs();
+ }
    }
    if (DEBUG_DECODE() && ! DEBUG_DECODE_NOPRINT()) {
        printk("%04x:%04x ",M.x86.saved_cs, M.x86.saved_ip);
```

```
@@ -185,7 +189,7 @@
   for (i=0; i< M.x86.enc_pos; i++) {
      sprintf(buf1+2*i,"%02x", fetch_data_byte_abs(s,o+i));
   }
-   printk("%-20s",buf1);
+   printk("%-20s ",buf1);
}

static void print_decoded_instruction (void)
Index: ops2.c
===================================================================
RCS file:
 /cvs/osdf/cvs/host/other-licence/x86emu/ops2.c,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- ops2.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops2.c 20 Mar 2008 15:48:34 -0000 1.3
@@ -149,8 +149,69 @@
   target += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
      M.x86.R_IP = (u16)target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " LONG COND ");
+   }
+   DECODE_CLEAR_SEGOVR();
+   END_OF_INSTR();
+}
+
+/****************************************************************************
+REMARKS:
+Handles opcode 0x0f,0xC8-0xCF
+****************************************************************************/
+s32 x86emu_bswap(s32 reg)
+{
+  // perform the byte swap
+  s32 temp = reg;
+  reg = (temp & 0xFF000000) >> 24;
+  reg |= (temp & 0xFF0000) >> 8;
+  reg |= (temp & 0xFF00) << 8;
+  reg |= (temp & 0xFF) << 24;
+  return reg;
+}
+
+void x86emuOp2_bswap(u8 op2)
+{
```

```
+
   /* byte swap 32 bit register */
+    START_OF_INSTR();
+    DECODE_PRINTF("BSWAP\t");
+    switch (op2) {
+      case 0xc8:
+        DECODE_PRINTF("EAX\n");
+        M.x86.R_EAX = x86emu_bswap(M.x86.R_EAX);
+        break;
+      case 0xc9:
+        DECODE_PRINTF("ECX\n");
+        M.x86.R_ECX = x86emu_bswap(M.x86.R_ECX);
+        break;
+      case 0xca:
+        DECODE_PRINTF("EDX\n");
+        M.x86.R_EDX = x86emu_bswap(M.x86.R_EDX);
+        break;
+      case 0xcb:
+        DECODE_PRINTF("EBX\n");
+        M.x86.R_EBX = x86emu_bswap(M.x86.R_EBX);
+        break;
+      case 0xcc:
+        DECODE_PRINTF("ESP\n");
+        M.x86.R_ESP = x86emu_bswap(M.x86.R_ESP);
+        break;
+      case 0xcd:
+        DECODE_PRINTF("EBP\n");
+        M.x86.R_EBP = x86emu_bswap(M.x86.R_EBP);
+        break;
+      case 0xce:
+        DECODE_PRINTF("ESI\n");
+        M.x86.R_ESI = x86emu_bswap(M.x86.R_ESI);
+        break;
+      case 0xcf:
+        DECODE_PRINTF("EDI\n");
+        M.x86.R_EDI
 = x86emu_bswap(M.x86.R_EDI);
+        break;
+    }
+    TRACE_AND_STEP();
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1702,14 +1763,14 @@
/*  0xc5 */ x86emuOp2_illegal_op,
/*  0xc6 */ x86emuOp2_illegal_op,
/*  0xc7 */ x86emuOp2_illegal_op,
-/*  0xc8 */ x86emuOp2_illegal_op,  /* TODO: bswap */
```

```
-/*  0xc9 */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xca */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcb */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcc */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcd */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xce */ x86emuOp2_illegal_op,  /* TODO: bswap */
-/*  0xcf */ x86emuOp2_illegal_op,  /* TODO: bswap */
+/*  0xc8 */ x86emuOp2_bswap,
+/*  0xc9 */ x86emuOp2_bswap,
+/*  0xca */ x86emuOp2_bswap,
+/*  0xcb */ x86emuOp2_bswap,
+/*  0xcc */ x86emuOp2_bswap,
+/*  0xcd */ x86emuOp2_bswap,
+/*  0xce */ x86emuOp2_bswap,
+/*  0xcf */ x86emuOp2_bswap,

/*  0xd0 */ x86emuOp2_illegal_op,
/*  0xd1 */ x86emuOp2_illegal_op,
Index:
 ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/ops.c,v
retrieving revision 1.1
diff -u -u -r1.1 ops.c
--- ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ ops.c 20 Mar 2008 16:52:00 -0000
@@ -1061,7 +1061,11 @@
   imm = (s8)fetch_byte_imm();
   DECODE_PRINTF2("PUSH\t%d\n", imm);
   TRACE_AND_STEP();
-   push_word(imm);
+   if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       push_long(imm);
+   } else {
+       push_word(imm);
+   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -1256,8 +1260,10 @@
   target = (u16)(M.x86.R_IP + (s16)offset);
   DECODE_PRINTF2("%x\n", target);
   TRACE_AND_STEP();
-   if (cond)
+   if (cond) {
       M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " NEAR COND ");
+   }
```

```
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -2516,9 +2522,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE))
 {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2526,6 +2534,8 @@
       store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, val);
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2559,9 +2569,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode
 & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2574,6 +2586,8 @@
       }
       M.x86.R_SI += inc;
       M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
```

```
   }
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -2598,16 +2612,21 @@

   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         val1 = fetch_data_byte(M.x86.R_SI);
         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
                cmp_byte(val1, val2);
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+
            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_SI += inc;
         M.x86.R_DI += inc;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && (ACCESS_FLAG(F_ZF) == 0) ) break;
         if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2644,8 +2663,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val1 = fetch_data_long(M.x86.R_SI);
            val2 = fetch_data_long_abs(M.x86.R_ES,
 M.x86.R_DI);
@@ -2655,11 +2674,16 @@
            val2 = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word((u16)val1, (u16)val2);
         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
```

```
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_SI += inc;
          M.x86.R_DI += inc;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPE) && ACCESS_FLAG(F_ZF) == 0 ) break;
          if ( (M.x86.mode & SYSMODE_PREFIX_REPNE) && ACCESS_FLAG(F_ZF) ) break;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2741,11 +2765,16 @@
   TRACE_AND_STEP();
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /*
 move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          store_data_byte_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AL);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
+           if (M.x86.intr & INTR_HALTED)
+               break;
       }
       M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   } else {
@@ -2783,9 +2812,11 @@
   count = 1;
   if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
       /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
       M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;

     M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
   }
   while (count--) {
@@ -2795,6 +2826,8 @@
```

```
            store_data_word_abs(M.x86.R_ES, M.x86.R_DI, M.x86.R_AX);
        }
        M.x86.R_DI += inc;
+       if (M.x86.intr & INTR_HALTED)
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2817,11 +2850,16 @@
        inc = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
            M.x86.R_AL = fetch_data_byte(M.x86.R_SI);
-           M.x86.R_CX -= 1;
+           if (M.x86.mode & SYSMODE_32BIT_REP)
+               M.x86.R_ECX -= 1;
+           else
+               M.x86.R_CX -= 1;
            M.x86.R_SI += inc;
+           if (M.x86.intr & INTR_HALTED)
+
               break;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    } else {
@@ -2859,9 +2897,11 @@
    count = 1;
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* move them until CX is ZERO. */
-       count = M.x86.R_CX;
+       /* move them until (E)CX is ZERO. */
+       count = (M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX;
        M.x86.R_CX = 0;
+ if (M.x86.mode & SYSMODE_32BIT_REP)
+           M.x86.R_ECX = 0;
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
    }
    while (count--) {
@@ -2871,6 +2911,8 @@
            M.x86.R_AX = fetch_data_word(M.x86.R_SI);
        }
        M.x86.R_SI += inc;
+       if (M.x86.intr & INTR_HALTED)
```

```
+           break;
    }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -2894,26 +2936,36 @@
        inc = 1;
    if (M.x86.mode & SYSMODE_PREFIX_REPE) {
        /*
 REPE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
          val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
          cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
          M.x86.R_DI += inc;
          if (ACCESS_FLAG(F_ZF) == 0)
             break;
+          if (M.x86.intr & INTR_HALTED)
+              break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPE;
    } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
        /* REPNE  */
-       /* move them until CX is ZERO. */
-       while (M.x86.R_CX != 0) {
+       /* move them until (E)CX is ZERO. */
+       while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {

         val2 = fetch_data_byte_abs(M.x86.R_ES, M.x86.R_DI);
         cmp_byte(M.x86.R_AL, val2);
-          M.x86.R_CX -= 1;
+          if (M.x86.mode & SYSMODE_32BIT_REP)
+              M.x86.R_ECX -= 1;
+          else
+              M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF))
            break;         /* zero flag set means equal */
+          if (M.x86.intr & INTR_HALTED)
+              break;
        }
        M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
```

```
   } else {
@@ -2951,8 +3003,8 @@
   TRACE_AND_STEP();
   if (M.x86.mode & SYSMODE_PREFIX_REPE) {
      /* REPE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
 val);
@@ -2960,16 +3012,21 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
         M.x86.R_DI += inc;
         if (ACCESS_FLAG(F_ZF) == 0)
            break;
+         if (M.x86.intr & INTR_HALTED)
+            break;
      }
      M.x86.mode &= ~SYSMODE_PREFIX_REPE;
   } else if (M.x86.mode & SYSMODE_PREFIX_REPNE) {
      /* REPNE  */
-      /* move them until CX is ZERO. */
-      while (M.x86.R_CX != 0) {
+      /* move them until (E)CX is ZERO. */
+      while (((M.x86.mode & SYSMODE_32BIT_REP) ? M.x86.R_ECX : M.x86.R_CX) != 0) {
         if (M.x86.mode & SYSMODE_PREFIX_DATA) {
            val = fetch_data_long_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_long(M.x86.R_EAX,
 val);
@@ -2977,10 +3034,15 @@
            val = fetch_data_word_abs(M.x86.R_ES, M.x86.R_DI);
            cmp_word(M.x86.R_AX, (u16)val);
         }
-         M.x86.R_CX -= 1;
+         if (M.x86.mode & SYSMODE_32BIT_REP)
+            M.x86.R_ECX -= 1;
+         else
+            M.x86.R_CX -= 1;
```

```
            M.x86.R_DI += inc;
            if (ACCESS_FLAG(F_ZF))
               break;          /* zero flag set means equal */
+            if (M.x86.intr & INTR_HALTED)
+               break;
         }
         M.x86.mode &= ~SYSMODE_PREFIX_REPNE;
      } else {
@@ -3238,9 +3300,9 @@
      DECODE_PRINTF("RET\t");
      imm = fetch_word_imm();
      DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
      M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
      M.x86.R_SP += imm;
      DECODE_CLEAR_SEGOVR();
      END_OF_INSTR();
@@ -3254,9 +3316,9
  @@
{
      START_OF_INSTR();
      DECODE_PRINTF("RET\n");
- RETURN_TRACE("RET",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
      M.x86.R_IP = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "NEAR");
      DECODE_CLEAR_SEGOVR();
      END_OF_INSTR();
}
@@ -3471,10 +3533,10 @@
      DECODE_PRINTF("RETF\t");
      imm = fetch_word_imm();
      DECODE_PRINTF2("%x\n", imm);
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
  TRACE_AND_STEP();
      M.x86.R_IP = pop_word();
      M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
      M.x86.R_SP += imm;
      DECODE_CLEAR_SEGOVR();
      END_OF_INSTR();
@@ -3488,10 +3550,10 @@
{
      START_OF_INSTR();
      DECODE_PRINTF("RETF\n");
- RETURN_TRACE("RETF",M.x86.saved_cs,M.x86.saved_ip);
```

```
 TRACE_AND_STEP();
   M.x86.R_IP = pop_word();
   M.x86.R_CS = pop_word();
+ RETURN_TRACE(M.x86.saved_cs,M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, "FAR");
   DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4020,8 +4082,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && !ACCESS_FLAG(F_ZF))      /* CX != 0 and !ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
!ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and !ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4041,8 +4106,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0 && ACCESS_FLAG(F_ZF))       /* CX != 0 and ZF */
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0 &&
ACCESS_FLAG(F_ZF))      /* (E)CX != 0 and ZF */
       M.x86.R_IP = ip;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
@@ -4062,8 +4130,11 @@
   ip += (s16) M.x86.R_IP;
   DECODE_PRINTF2("%04x\n", ip);
   TRACE_AND_STEP();
-   M.x86.R_CX -= 1;
-   if (M.x86.R_CX != 0)
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.R_ECX -= 1;
+   else
+       M.x86.R_CX -= 1;
+   if (((M.x86.mode & SYSMODE_PREFIX_ADDR) ? M.x86.R_ECX : M.x86.R_CX) != 0)      /* (E)CX != 0 */
```

```
        M.x86.R_IP = ip;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
@@ -4085,8 +4156,10 @@
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
    TRACE_AND_STEP();
-   if (M.x86.R_CX == 0)
+   if (M.x86.R_CX == 0) {
        M.x86.R_IP = target;
+ JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, M.x86.R_IP, " CXZ ");
+   }
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
}
@@ -4213,6 +4286,7 @@
    ip = (s16)fetch_word_imm();
    ip += (s16)M.x86.R_IP;
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs,
 M.x86.saved_ip, M.x86.R_CS, ip, " NEAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = (u16)ip;
    DECODE_CLEAR_SEGOVR();
@@ -4233,6 +4307,7 @@
    cs = fetch_word_imm();
    DECODE_PRINTF2("%04x:", cs);
    DECODE_PRINTF2("%04x\n", ip);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, cs, ip, " FAR ");
    TRACE_AND_STEP();
    M.x86.R_IP = ip;
    M.x86.R_CS = cs;
@@ -4254,6 +4329,7 @@
    offset = (s8)fetch_byte_imm();
    target = (u16)(M.x86.R_IP + offset);
    DECODE_PRINTF2("%x\n", target);
+   JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, target, " BYTE ");
    TRACE_AND_STEP();
    M.x86.R_IP = target;
    DECODE_CLEAR_SEGOVR();
@@ -4357,6 +4433,8 @@
    DECODE_PRINTF("REPNE\n");
    TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPNE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
    DECODE_CLEAR_SEGOVR();
    END_OF_INSTR();
```

```
}
@@ -4371,6 +4449,8 @@
   DECODE_PRINTF("REPE\n");
   TRACE_AND_STEP();
    M.x86.mode |= SYSMODE_PREFIX_REPE;
+   if (M.x86.mode & SYSMODE_PREFIX_ADDR)
+       M.x86.mode |= SYSMODE_32BIT_REP;
   DECODE_CLEAR_SEGOVR();
   END_OF_INSTR();
}
@@ -5013,12 +5093,14 @@
           break;
       case 4:        /* jmp word ptr ... */
           destval = fetch_data_word(destoffset);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, M.x86.R_CS, destval, " WORD ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           break;
       case 5:        /* jmp far ptr ... */
           destval = fetch_data_word(destoffset);
           destval2 = fetch_data_word(destoffset + 2);
+           JMP_TRACE(M.x86.saved_cs, M.x86.saved_ip, destval2, destval, " FAR ");
           TRACE_AND_STEP();
           M.x86.R_IP = destval;
           M.x86.R_CS = destval2;
Index: prim_ops.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/prim_ops.c,v
retrieving revision
 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- prim_ops.c 7 Sep 2007 10:01:21 -0000 1.1
+++ prim_ops.c 16 Jan 2008 14:18:15 -0000 1.3
@@ -1921,7 +1921,7 @@
void imul_long_direct(u32 *res_lo, u32* res_hi,u32 d, u32 s)
{
#ifdef  __HAS_LONG_LONG__
-   s64 res = (s64)d * (s64)s;
+    s64 res = (s64)(s32)d * (s64)(s32)s;

   *res_lo = (u32)res;
   *res_hi = (u32)(res >> 32);
@@ -2013,7 +2013,7 @@
void mul_long(u32 s)
{
#ifdef  __HAS_LONG_LONG__
-   u64 res = (u32)M.x86.R_EAX * (u32)s;
```

```
+    u64 res = (u64)M.x86.R_EAX * s;

    M.x86.R_EAX = (u32)res;
    M.x86.R_EDX = (u32)(res >> 32);
@@ -2312,16 +2312,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* in until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* in until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
-
        while (count--) {
         single_in(size);
         M.x86.R_DI += inc;
         }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
           M.x86.R_ECX = 0;
        }
        M.x86.mode &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
@@ -2355,15 +2354,15 @@
    }
    if (M.x86.mode & (SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE)) {
        /* dont care whether REPE or REPNE */
-       /* out until CX is ZERO. */
-       u32 count = ((M.x86.mode & SYSMODE_PREFIX_DATA) ?
+       /* out until (E)CX is ZERO. */
+       u32 count = ((M.x86.mode & SYSMODE_32BIT_REP) ?
                    M.x86.R_ECX : M.x86.R_CX);
        while (count--) {
         single_out(size);
         M.x86.R_SI += inc;
         }
        M.x86.R_CX = 0;
-       if (M.x86.mode & SYSMODE_PREFIX_DATA) {
+       if (M.x86.mode & SYSMODE_32BIT_REP) {
           M.x86.R_ECX = 0;
        }
        M.x86.mode
 &= ~(SYSMODE_PREFIX_REPE | SYSMODE_PREFIX_REPNE);
Index: sys.c
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/sys.c,v
retrieving revision 1.1
```

```
retrieving revision 1.2
diff -u -u -r1.1 -r1.2
--- sys.c 7 Sep 2007 10:01:21 -0000 1.1
+++ sys.c 7 Sep 2007 10:03:13 -0000 1.2
@@ -45,11 +45,6 @@
#include <x86emu/regs.h>
#include "debug.h"
#include "prim_ops.h"
-#ifdef LINUXBIOS_VERSION
-#include "io.h"
-#else
-#include <sys/io.h>
-#endif

#ifdef IN_MODULE
#include "xf86_ansic.h"
@@ -220,7 +215,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inb %#04x \n", addr);)
- return inb(addr);
+ return 0;
}

/******************************************************************************
@@ -235,7 +230,7 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("inw %#04x \n", addr);)
- return inw(addr);
+ return 0;
}

/******************************************************************************
@@ -250,7 +245,7 @@
{
 DB(if (DEBUG_IO_TRACE())
   printk("inl %#04x \n", addr);)
- return inl(addr);
+ return 0;
}

/******************************************************************************
@@ -264,7 +259,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outb %#02x -> %#04x \n", val, addr);)
- outb(val, addr);
```

```
 return;
}

@@ -279,7 +273,6 @@
{
 DB(if (DEBUG_IO_TRACE())
  printk("outw %#04x -> %#04x \n", val, addr);)
- outw(val, addr);
 return;
}

@@ -295,7 +288,6 @@
 DB(if (DEBUG_IO_TRACE())
        printk("outl %#08x -> %#04x \n", val, addr);)

- outl(val, addr);
 return;
}

@@ -405,6 +397,6 @@

void X86EMU_setMemBase(void *base, size_t size)
{
- M.mem_base = (int) base;
+ M.mem_base = (unsigned long) base;
 M.mem_size = size;
}
Index: include/x86emu/debug.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/debug.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/debug.h 7
 Sep 2007 10:01:21 -0000 1.1
+++ include/x86emu/debug.h 20 Mar 2008 15:25:27 -0000 1.4
@@ -40,8 +40,6 @@
#ifndef __X86EMU_DEBUG_H
#define __X86EMU_DEBUG_H

-//#define DEBUG 0
-#undef DEBUG
/*---------------------- Macros and type definitions ----------------------*/

/* checks to be enabled for "runtime" */
@@ -78,6 +76,8 @@
# define DEBUG_SYSINT()        (M.x86.debug & DEBUG_SYSINT_F)
# define DEBUG_TRACECALL()      (M.x86.debug & DEBUG_TRACECALL_F)
```

```
# define DEBUG_TRACECALLREGS()  (M.x86.debug & DEBUG_TRACECALL_REGS_F)
+# define DEBUG_TRACEJMP()       (M.x86.debug & DEBUG_TRACEJMP_F)
+# define DEBUG_TRACEJMPREGS()   (M.x86.debug & DEBUG_TRACEJMP_REGS_F)
# define DEBUG_SYS()            (M.x86.debug & DEBUG_SYS_F)
# define DEBUG_MEM_TRACE()      (M.x86.debug & DEBUG_MEM_TRACE_F)
# define DEBUG_IO_TRACE()       (M.x86.debug & DEBUG_IO_TRACE_F)
@@ -96,6 +96,8 @@
# define DEBUG_SYSINT()         0
# define DEBUG_TRACECALL()      0
# define DEBUG_TRACECALLREGS()  0
+# define DEBUG_TRACEJMP()
       0
+# define DEBUG_TRACEJMPREGS()   0
# define DEBUG_SYS()            0
# define DEBUG_MEM_TRACE()      0
# define DEBUG_IO_TRACE()       0
@@ -169,14 +171,20 @@
  x86emu_dump_regs();                                   \
 if (DEBUG_TRACECALL())                                 \
  printk("%04x:%04x: CALL %s%04x:%04x\n", u , v, s, w, x);
-# define RETURN_TRACE(n,u,v)                           \
+# define RETURN_TRACE(u,v,w,x,s)                       \
 if (DEBUG_TRACECALLREGS())        \
  x86emu_dump_regs();                                   \
 if (DEBUG_TRACECALL())                                 \
-  printk("%04x:%04x: %s\n",u,v,n);
+  printk("%04x:%04x: RET %s %04x:%04x\n",u,v,s,w,x);
+# define  JMP_TRACE(u,v,w,x,s)                         \
+   if (DEBUG_TRACEJMPREGS()) \
+      x86emu_dump_regs(); \
+   if (DEBUG_TRACEJMP()) \
+      printk("%04x:%04x: JMP %s%04x:%04x\n", u , v, s, w, x);
#else
# define CALL_TRACE(u,v,w,x,s)
-#
 define RETURN_TRACE(n,u,v)
+# define RETURN_TRACE(u,v,w,x,s)
+# define  JMP_TRACE(u,v,w,x,s)
#endif

#ifdef DEBUG
Index: include/x86emu/regs.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/regs.h,v
retrieving revision 1.1
retrieving revision 1.4
diff -u -u -r1.1 -r1.4
--- include/x86emu/regs.h 7 Sep 2007 10:01:21 -0000 1.1
```

```
+++ include/x86emu/regs.h 15 Jan 2008 13:46:40 -0000 1.4
@@ -231,6 +231,9 @@
#define SYSMODE_PREFIX_REPNE    0x00000100
#define SYSMODE_PREFIX_DATA     0x00000200
#define SYSMODE_PREFIX_ADDR     0x00000400
+//phueper: for REP(E|NE) Instructions, we need to decide wether it should be using
+//the 32bit ECX register as or the 16bit CX register as count register
+#define SYSMODE_32BIT_REP       0x00000800
#define SYSMODE_INTR_PENDING    0x10000000
#define SYSMODE_EXTRN_INTR      0x20000000
#define SYSMODE_HALTED          0x40000000
@@ -250,7 +253,8 @@
       SYSMODE_SEGOVR_GS      | \
      SYSMODE_SEGOVR_SS      | \
      SYSMODE_PREFIX_DATA    | \
-      SYSMODE_PREFIX_ADDR)
+      SYSMODE_PREFIX_ADDR    | \
+      SYSMODE_32BIT_REP)

#define  INTR_SYNCH          0x1
#define  INTR_ASYNCH         0x2
@@ -274,9 +278,9 @@
    */
   u32                     mode;
   volatile int            intr;   /* mask of pending interrupts */
- int                     debug;
+    volatile int                    debug;
#ifdef DEBUG
- int                     check;
+    int                     check;
   u16                     saved_ip;
   u16                     saved_cs;
   int                     enc_pos;
Index: include/x86emu/x86emu.h
===================================================================
RCS file: /cvs/osdf/cvs/host/other-licence/x86emu/include/x86emu/x86emu.h,v
retrieving revision 1.1
retrieving revision 1.3
diff -u -u -r1.1 -r1.3
--- include/x86emu/x86emu.h 7 Sep 2007 10:01:21
 -0000 1.1
+++ include/x86emu/x86emu.h 19 Oct 2007 08:42:15 -0000 1.3
@@ -47,6 +47,7 @@
#include <console.h>
#define printk(x...) printk(BIOS_DEBUG, x)
#else
+#include <stdio.h>
#define printk printf
```

```
#endif

@@ -189,6 +181,8 @@
#define DEBUG_TRACECALL_REGS_F  0x004000
#define DEBUG_DECODE_NOPRINT_F  0x008000
#define DEBUG_SAVE_IP_CS_F      0x010000
+#define DEBUG_TRACEJMP_F        0x020000
+#define DEBUG_TRACEJMP_REGS_F   0x040000
#define DEBUG_SYS_F             (DEBUG_SVC_F|DEBUG_FS_F|DEBUG_PROC_F)

void  X86EMU_trace_regs(void);
@@ -200,5 +194,4 @@
#ifdef  __cplusplus
}                       /* End of "C" linkage for C++    */
#endif
-
#endif /* __X86EMU_X86EMU_H */
```

argparse is (c) 2006-2009 Steven J. Bethard <steven.bethard@gmail.com>.

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History

Before (and including) argparse 1.1, the argparse package was licensed under
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Python 2.7.1, so definitely all files are under Python License now.

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Version 2, June 1991

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```
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*  OpenBSD setup_initial_stack() implementation.
*
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*/

#ifndef _TARGET_OS_STACK_H_
#define _TARGET_OS_STACK_H_

#include "target_arch_sigtramp.h"

static inline int setup_initial_stack(struct bsd_binprm *bprm, abi_ulong *p,
   abi_ulong *stringp)
{
   int i;
   abi_ulong stack_base;

   stack_base
 = (target_stkbas + target_stksiz) -
               MAX_ARG_PAGES * TARGET_PAGE_SIZE;
   if (p) {
       *p = stack_base;
   }
   if (stringp) {
       *stringp = stack_base;
   }
```

```
  for (i = 0; i < MAX_ARG_PAGES; i++) {
    if (bprm->page[i]) {
      info->rss++;
      if (!memcpy_to_target(stack_base, bprm->page[i],
                TARGET_PAGE_SIZE)) {
        errno = EFAULT;
        return -1;
      }
      g_free(bprm->page[i]);
    }
    stack_base += TARGET_PAGE_SIZE;
  }

  return 0;
}

#endif /* !_TARGET_OS_STACK_H_ */
/*
*  netbsd ELF definitions
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*/
#ifndef _TARGET_OS_ELF_H_
#define _TARGET_OS_ELF_H_

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
```

```
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                  abi_ulong stringp,
                                  struct elfhdr *exec,
                                  abi_ulong load_addr,
                                   abi_ulong load_bias,
                                  abi_ulong interp_load_addr,
                                  struct image_info *info)
{
      abi_ulong sp;
      int size;
      abi_ulong u_platform;
      const char *k_platform;
      const int n = sizeof(elf_addr_t);

      sp = p;
```

```
    u_platform = 0;
    k_platform = ELF_PLATFORM;
    if (k_platform) {
        size_t len = strlen(k_platform) + 1;
        sp -= (len + n - 1) & ~(n - 1);
        u_platform = sp;
        /* FIXME - check return value of memcpy_to_target() for failure */
        memcpy_to_target(sp, k_platform, len);
    }
    /*
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    if (k_platform) {
        size += 2;
    }
#ifdef DLINFO_ARCH_ITEMS
    size += DLINFO_ARCH_ITEMS * 2;
#endif
     size += envc + argc + 2;
    size += 1;                      /* argc itself */
    size *= n;
    if (size & 15) {
        sp -= 16 - (size & 15);
    }

    /*
     * NetBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
        sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
      } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    NEW_AUX_ENT(AT_UID,
 (abi_ulong)getuid());
    NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
```

```
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
    NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
    if (k_platform) {
        NEW_AUX_ENT(AT_PLATFORM, u_platform);
    }
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

    sp = loader_build_argptr(envc, argc, sp, stringp);
    return sp;
}

#endif /* _TARGET_OS_ELF_H_ */
/* XXX NetBSD dependent strace print functions */
/*
*  FreeBSD dependent strace print functions
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*/

#include "target_arch_sysarch.h"    /* architecture dependent functions */


static inline void do_os_print_sysarch(const struct syscallname *name,
    abi_long arg1, abi_long arg2, abi_long arg3, abi_long arg4,
    abi_long arg5, abi_long arg6)
{
```

```
    /* This is arch dependent */
   do_freebsd_arch_print_sysarch(name, arg1, arg2, arg3, arg4, arg5, arg6);
}
```

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```
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```

```
*/

#ifndef _TARGET_ARCH_H_
#define _TARGET_ARCH_H_

/* target_arch_cpu.c */
void bsd_i386_write_dt(void *ptr, unsigned long addr, unsigned long limit,
            int flags);
void bsd_i386_set_idt(int n, unsigned int dpl);
void bsd_i386_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* ! _TARGET_ARCH_H_ */
```

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```
 IN
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#ifndef _TARGET_OS_SIGNAL_H_
#define _TARGET_OS_SIGNAL_H_

/* FreeBSD's sys/ucontext.h defines this */
#define TARGET_MC_GET_CLEAR_RET 0x0001

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

/* Compare to sys/signal.h */
#define TARGET_SIGHUP  1       /* hangup */
#define TARGET_SIGINT  2       /* interrupt */
#define TARGET_SIGQUIT 3       /* quit */
#define TARGET_SIGILL  4       /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5       /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6       /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7       /* EMT instruction */
#define TARGET_SIGFPE  8       /* floating point exception */
#define TARGET_SIGKILL 9       /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10      /* bus error */
#define TARGET_SIGSEGV 11      /* segmentation violation */
#define TARGET_SIGSYS  12      /* bad argument to system call */
#define TARGET_SIGPIPE
 13      /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for output if(tp->t_local&LTOSTOP)*/
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF 27      /* profiling time alarm */
#define TARGET_SIGWINCH 28
 /* window size changes */
#define TARGET_SIGINFO  29     /* information request */
#define TARGET_SIGUSR1 30      /* user defined signal 1 */
#define TARGET_SIGUSR2 31      /* user defined signal 2 */
#define TARGET_SIGTHR 32       /* reserved by thread library */
#define TARGET_SIGLWP SIGTHR   /* compatibility */
```

```
#define TARGET_SIGLIBRT 33     /* reserved by the real-time library */
#define TARGET_SIGRTMIN 65
#define TARGET_SIGRTMAX 126

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL      ((abi_long)0)   /* default signal handling */
#define TARGET_SIG_IGN      ((abi_long)1)   /* ignore signal */
#define TARGET_SIG_ERR      ((abi_long)-1)  /* error return from signal */

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER
   0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */

/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK        1   /* block specified signal set */
#define TARGET_SIG_UNBLOCK      2   /* unblock specified signal set */
#define TARGET_SIG_SETMASK      3   /* set specified signal set */

#define TARGET_BADSIG           SIG_ERR

/*
* sigaltstack control
*/
#define TARGET_SS_ONSTACK 0x0001  /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004  /* disable taking signals on alternate stack*/

#endif /* !_TARGET_OS_SIGNAL_H_ */
```

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*/

#ifndef _TARGET_ARCH_REG_H_
#define _TARGET_ARCH_REG_H_

/* See sys/amd64/include/reg.h */
typedef struct target_reg {
   uint64_t        r_r15;
   uint64_t        r_r14;
   uint64_t        r_r13;
```

```
  uint64_t        r_r12;
  uint64_t
      r_r11;
  uint64_t        r_r10;
  uint64_t        r_r9;
  uint64_t        r_r8;
  uint64_t        r_rdi;
  uint64_t        r_rsi;
  uint64_t        r_rbp;
  uint64_t        r_rbx;
  uint64_t        r_rdx;
  uint64_t        r_rcx;
  uint64_t        r_rax;
  uint32_t        r_trapno;
  uint16_t        r_fs;
  uint16_t        r_gs;
  uint32_t        r_err;
  uint16_t        r_es;
  uint16_t        r_ds;
  uint64_t        r_rip;
  uint64_t        r_cs;
  uint64_t        r_rflags;
  uint64_t        r_rsp;
  uint64_t        r_ss;
} target_reg_t;

typedef struct target_fpreg {
  uint64_t        fpr_env[4];
  uint8_t         fpr_acc[8][16];
  uint8_t         fpr_xacc[16][16];
  uint64_t        fpr_spare[12];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
{

  regs->r_r15 = env->regs[15];
  regs->r_r14 = env->regs[14];
  regs->r_r13 = env->regs[13];
  regs->r_r12 = env->regs[12];
   regs->r_r11 = env->regs[11];
  regs->r_r10 = env->regs[10];
  regs->r_r9 = env->regs[9];
  regs->r_r8 = env->regs[8];
  regs->r_rdi = env->regs[R_EDI];
  regs->r_rsi = env->regs[R_ESI];
  regs->r_rbp = env->regs[R_EBP];
  regs->r_rbx = env->regs[R_EBX];
```

```
  regs->r_rdx = env->regs[R_EDX];
  regs->r_rcx = env->regs[R_ECX];
  regs->r_rax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
  regs->r_fs = env->segs[R_FS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_es = env->segs[R_ES].selector & 0xffff;
  regs->r_ds = env->segs[R_DS].selector & 0xffff;
  regs->r_rip = env->eip;
  regs->r_cs = env->segs[R_CS].selector & 0xffff;
  regs->r_rflags = env->eflags;
  regs->r_rsp = env->regs[R_ESP];
  regs->r_ss = env->segs[R_SS].selector & 0xffff;
}

#endif /* !_TARGET_ARCH_REG_H_ */
```

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*
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*/

#ifndef _ERRNO_DEFS_H_
#define _ERRNO_DEFS_H_

#define
 TARGET_EPERM           1               /* Operation not permitted */
#define TARGET_ENOENT           2               /* No such file or directory */
#define TARGET_ESRCH            3               /* No such process */
#define TARGET_EINTR            4               /* Interrupted system call */
#define TARGET_EIO              5               /* Input/output error */
#define TARGET_ENXIO            6               /* Device not configured */
#define TARGET_E2BIG            7               /* Argument list too long */
#define TARGET_ENOEXEC          8               /* Exec format error */
#define TARGET_EBADF            9               /* Bad file descriptor */
#define TARGET_ECHILD           10              /* No child processes */
#define TARGET_EDEADLK          11              /* Resource deadlock avoided */
                                /* 11 was EAGAIN */
#define TARGET_ENOMEM           12              /* Cannot allocate memory */
#define TARGET_EACCES
          13            /* Permission denied */
#define TARGET_EFAULT           14              /* Bad address */
#define TARGET_ENOTBLK          15              /* Block device required */
#define TARGET_EBUSY            16              /* Device busy */
#define TARGET_EEXIST           17              /* File exists */
#define TARGET_EXDEV            18              /* Cross-device link */
#define TARGET_ENODEV           19              /* Operation not supported by device */
#define TARGET_ENOTDIR          20              /* Not a directory */
#define TARGET_EISDIR           21              /* Is a directory */
#define TARGET_EINVAL           22              /* Invalid argument */
#define TARGET_ENFILE           23              /* Too many open files in system */
#define TARGET_EMFILE           24              /* Too many open files */
#define TARGET_ENOTTY           25              /* Inappropriate ioctl for device */
#define TARGET_ETXTBSY          26              /* Text file
 busy */
#define TARGET_EFBIG            27              /* File too large */
#define TARGET_ENOSPC           28              /* No space left on device */
#define TARGET_ESPIPE           29              /* Illegal seek */
#define TARGET_EROFS            30              /* Read-only file system */
#define TARGET_EMLINK           31              /* Too many links */
#define TARGET_EPIPE            32              /* Broken pipe */

/* math software */
#define TARGET_EDOM             33              /* Numerical argument out of domain */
```

```
#define TARGET_ERANGE          34             /* Result too large */

/* non-blocking and interrupt i/o */
#define TARGET_EAGAIN          35             /* Resource temporarily unavailable */
#define TARGET_EWOULDBLOCK     EAGAIN         /* Operation would block */
#define TARGET_EINPROGRESS     36             /* Operation now in progress */
#define TARGET_EALREADY 37             /* Operation already in progress */

/* ipc/network software -- argument
 errors */
#define TARGET_ENOTSOCK 38             /* Socket operation on non-socket */
#define TARGET_EDESTADDRREQ    39             /* Destination address required */
#define TARGET_EMSGSIZE 40             /* Message too long */
#define TARGET_EPROTOTYPE      41             /* Protocol wrong type for socket */
#define TARGET_ENOPROTOOPT     42             /* Protocol not available */
#define TARGET_EPROTONOSUPPORT  43             /* Protocol not supported */
#define TARGET_ESOCKTNOSUPPORT  44             /* Socket type not supported */
#define TARGET_EOPNOTSUPP      45             /* Operation not supported */
#define TARGET_EPFNOSUPPORT    46             /* Protocol family not supported */
#define TARGET_EAFNOSUPPORT    47             /* Address family not supported by protocol family */
#define TARGET_EADDRINUSE      48             /* Address already in use */
#define TARGET_EADDRNOTAVAIL   49             /* Can't assign requested address */

/* ipc/network
 software -- operational errors */
#define TARGET_ENETDOWN 50             /* Network is down */
#define TARGET_ENETUNREACH     51             /* Network is unreachable */
#define TARGET_ENETRESET       52             /* Network dropped connection on reset */
#define TARGET_ECONNABORTED    53             /* Software caused connection abort */
#define TARGET_ECONNRESET      54             /* Connection reset by peer */
#define TARGET_ENOBUFS         55             /* No buffer space available */
#define TARGET_EISCONN         56             /* Socket is already connected */
#define TARGET_ENOTCONN 57             /* Socket is not connected */
#define TARGET_ESHUTDOWN       58             /* Can't send after socket shutdown */
#define TARGET_ETOOMANYREFS    59             /* Too many references: can't splice */
#define TARGET_ETIMEDOUT       60             /* Operation timed out */
#define TARGET_ECONNREFUSED    61             /* Connection refused */

#define TARGET_ELOOP
          62             /* Too many levels of symbolic links */
#define TARGET_ENAMETOOLONG    63             /* File name too long */

/* should be rearranged */
#define TARGET_EHOSTDOWN       64             /* Host is down */
#define TARGET_EHOSTUNREACH    65             /* No route to host */
#define TARGET_ENOTEMPTY       66             /* Directory not empty */

/* quotas & mush */
```

```
#define TARGET_EPROCLIM 67          /* Too many processes */
#define TARGET_EUSERS       68          /* Too many users */
#define TARGET_EDQUOT       69          /* Disk quota exceeded */

/* Network File System */
#define TARGET_ESTALE       70          /* Stale NFS file handle */
#define TARGET_EREMOTE      71          /* Too many levels of remote in path */
#define TARGET_EBADRPC      72          /* RPC struct is bad */
#define TARGET_ERPCMISMATCH     73          /* RPC version wrong */
#define TARGET_EPROGUNAVAIL     74          /*
 RPC prog. not avail */
#define TARGET_EPROGMISMATCH    75          /* Program version wrong */
#define TARGET_EPROCUNAVAIL     76          /* Bad procedure for program */

#define TARGET_ENOLCK       77          /* No locks available */
#define TARGET_ENOSYS       78          /* Function not implemented */

#define TARGET_EFTYPE       79          /* Inappropriate file type or format */
#define TARGET_EAUTH        80          /* Authentication error */
#define TARGET_ENEEDAUTH        81          /* Need authenticator */
#define TARGET_EIPSEC       82          /* IPsec processing failure */
#define TARGET_ENOATTR      83          /* Attribute not found */
#define TARGET_EILSEQ       84          /* Illegal byte sequence */
#define TARGET_ENOMEDIUM        85          /* No medium found */
#define TARGET_EMEDIUMTYPE      86          /* Wrong Medium Type */
#define TARGET_EOVERFLOW        87          /* Conversion
 overflow */
#define TARGET_ECANCELED        88          /* Operation canceled */
#define TARGET_EIDRM        89          /* Identifier removed */
#define TARGET_ENOMSG       90          /* No message of desired type */
#define TARGET_ELAST        90          /* Must be equal largest errno */

/* Internal errors: */
#define TARGET_EJUSTRETURN      254         /* Just return without modifing regs */
#define TARGET_ERESTART         255         /* Restart syscall */
#define TARGET_ERESTARTSYS      TARGET_ERESTART /* Linux compat */

#endif /* !  _ERRNO_DEFS_H_ */
/* XXX OpenBSD dependent strace print functions */
#ifndef _TARGET_OS_SIGNAL_H_
#define _TARGET_OS_SIGNAL_H_

#include "target_os_siginfo.h"
#include "target_arch_signal.h"

#define TARGET_SIGHUP  1       /* hangup */
#define TARGET_SIGINT  2       /* interrupt */
#define TARGET_SIGQUIT 3       /* quit */
```

```
#define TARGET_SIGILL  4       /* illegal instruction (not reset when caught) */
#define TARGET_SIGTRAP 5       /* trace trap (not reset when caught) */
#define TARGET_SIGABRT 6       /* abort() */
#define TARGET_SIGIOT  SIGABRT /* compatibility */
#define TARGET_SIGEMT  7       /* EMT instruction */
#define TARGET_SIGFPE  8       /* floating point exception */
#define TARGET_SIGKILL 9       /* kill (cannot be caught or ignored) */
#define TARGET_SIGBUS  10      /* bus error */
#define TARGET_SIGSEGV 11      /* segmentation violation */
#define TARGET_SIGSYS  12      /* bad argument to system call */
#define TARGET_SIGPIPE 13      /* write on a pipe with no one to read it */
#define TARGET_SIGALRM 14      /* alarm clock */
#define TARGET_SIGTERM
 15      /* software termination signal from kill */
#define TARGET_SIGURG  16      /* urgent condition on IO channel */
#define TARGET_SIGSTOP 17      /* sendable stop signal not from tty */
#define TARGET_SIGTSTP 18      /* stop signal from tty */
#define TARGET_SIGCONT 19      /* continue a stopped process */
#define TARGET_SIGCHLD 20      /* to parent on child stop or exit */
#define TARGET_SIGTTIN 21      /* to readers pgrp upon background tty read */
#define TARGET_SIGTTOU 22      /* like TTIN for out if (tp->t_local&LTOSTOP) */
#define TARGET_SIGIO   23      /* input/output possible signal */
#define TARGET_SIGXCPU 24      /* exceeded CPU time limit */
#define TARGET_SIGXFSZ 25      /* exceeded file size limit */
#define TARGET_SIGVTALRM 26    /* virtual time alarm */
#define TARGET_SIGPROF   27    /* profiling time alarm */
#define TARGET_SIGWINCH  28    /* window size changes */
#define TARGET_SIGINFO   29    /* information request */
#define TARGET_SIGUSR1   30    /*
 user defined signal 1 */
#define TARGET_SIGUSR2   31    /* user defined signal 2 */

/*
* Language spec says we must list exactly one parameter, even though we
* actually supply three.  Ugh!
*/
#define TARGET_SIG_DFL         ((void (*)(int))0)
#define TARGET_SIG_IGN         ((void (*)(int))1)
#define TARGET_SIG_ERR         ((void (*)(int))-1)

#define TARGET_SA_ONSTACK   0x0001  /* take signal on signal stack */
#define TARGET_SA_RESTART   0x0002  /* restart system on signal return */
#define TARGET_SA_RESETHAND 0x0004  /* reset to SIG_DFL when taking signal */
#define TARGET_SA_NODEFER   0x0010  /* don't mask the signal we're delivering */
#define TARGET_SA_NOCLDWAIT 0x0020  /* don't create zombies (assign to pid 1) */
#define TARGET_SA_USERTRAMP 0x0100  /* do not bounce off kernel's sigtramp */
#define TARGET_SA_NOCLDSTOP 0x0008  /* do not generate SIGCHLD on child stop */
#define TARGET_SA_SIGINFO   0x0040  /* generate siginfo_t */
```

```
/*
* Flags for sigprocmask:
*/
#define TARGET_SIG_BLOCK
      1       /* block specified signal set */
#define TARGET_SIG_UNBLOCK     2       /* unblock specified signal set */
#define TARGET_SIG_SETMASK     3       /* set specified signal set */

#define TARGET_BADSIG       SIG_ERR

#define TARGET_SS_ONSTACK 0x0001 /* take signals on alternate stack */
#define TARGET_SS_DISABLE 0x0004 /* disable taking signals on alternate stack */

#endif /* !_TARGET_OS_SIGNAL_H_ */
```

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```
/*
*  x86_64 signal definitions
*
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```

```
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*/
#ifndef _TARGET_ARCH_SIGNAL_H_
#define _TARGET_ARCH_SIGNAL_H_

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)              /* min sig stack size */
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

struct target_sigcontext {
  /* to be added */
};

typedef struct target_mcontext {
} target_mcontext_t;

typedef struct target_ucontext {
  target_sigset_t   uc_sigmask;
  target_mcontext_t uc_mcontext;
  abi_ulong         uc_link;
  target_stack_t    uc_stack;
  int32_t           uc_flags;
  int32_t         __spare__[4];
} target_ucontext_t;

struct target_sigframe {
  abi_ulong   sf_signum;
  abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
  abi_ulong   sf_ucontext;   /* points to sf_uc */
  abi_ulong   sf_addr;       /* undocumented 4th arg */
  target_ucontext_t   sf_uc; /* = *sf_uncontext */
  target_siginfo_t    sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
```

```
   uint32_t    __spare__[2];
};

/*
* Compare to amd64/amd64/machdep.c sendsig()
* Assumes that target stack frame memory is locked.
*/
static inline abi_long set_sigtramp_args(CPUX86State *regs,
       int sig, struct target_sigframe
 *frame, abi_ulong frame_addr,
       struct target_sigaction *ka)
{
   /* XXX return -TARGET_EOPNOTSUPP; */
   return 0;
}

/* Compare to amd64/amd64/machdep.c get_mcontext() */
static inline abi_long get_mcontext(CPUX86State *regs,
               target_mcontext_t *mcp, int flags)
{
   /* XXX */
   return -TARGET_EOPNOTSUPP;
}

/* Compare to amd64/amd64/machdep.c set_mcontext() */
static inline abi_long set_mcontext(CPUX86State *regs,
       target_mcontext_t *mcp, int srflag)
{
   /* XXX */
   return -TARGET_EOPNOTSUPP;
}

static inline abi_long get_ucontext_sigreturn(CPUX86State *regs,
       abi_ulong target_sf, abi_ulong *target_uc)
{
   /* XXX */
   *target_uc = 0;
   return -TARGET_EOPNOTSUPP;
}

#endif /* !TARGET_ARCH_SIGNAL_H_ */
/*
*  mips64 system call definitions
*
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*/
#ifndef _MIPS64_SYSCALL_H_
#define _MIPS64_SYSCALL_H_

/*
* struct target_pt_regs defines the way the registers are stored on the stack
* during a system call.
*/

struct target_pt_regs {
   /* Saved main processor registers. */
   abi_ulong regs[32];

   /* Saved special registers. */
   abi_ulong
 cp0_status;
   abi_ulong lo;
   abi_ulong hi;
   abi_ulong cp0_badvaddr;
   abi_ulong cp0_cause;
   abi_ulong cp0_epc;
};


#if defined(TARGET_WORDS_BIGENDIAN)
#define UNAME_MACHINE "mips64"
#else
#define UNAME_MACHINE "mips64el"
#endif

#define TARGET_HW_MACHINE       "mips"
#define TARGET_HW_MACHINE_ARCH  UNAME_MACHINE

/* sysarch() commands */
#define TARGET_MIPS_SET_TLS     1
#define TARGET_MIPS_GET_TLS     2

#endif /* !_MIPS64_SYSCALL_H_ */
```

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==========

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John R. Hauser
2018 January 20

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```
/*
*  mips64 sysarch() system call emulation
*
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*/

#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUMIPSState *env, int op,
      abi_ulong parms)
{
  int ret = 0;

  switch (op)
 {
  case TARGET_MIPS_SET_TLS:
      target_cpu_set_tls(env, parms);
      break;

  case TARGET_MIPS_GET_TLS:
      if (put_user(target_cpu_get_tls(env), parms, abi_ulong)) {
          ret = -TARGET_EFAULT;
      }
      break;

  default:
      ret = -TARGET_EINVAL;
      break;
  }

  return ret;
}

static inline void do_freebsd_arch_print_sysarch(
      const struct syscallname *name, abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

  switch (arg1) {
  case TARGET_MIPS_SET_TLS:
      gemu_log("%s(SET_TLS, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
```

```
        break;

    case TARGET_MIPS_GET_TLS:
        gemu_log("%s(GET_TLS, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
        break;

    default:
        gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
    }
}

#endif /*!BSD_USER_ARCH_SYSARCH_H_ */
```

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```
/*
* System call numbers.
*
* DO NOT EDIT-- this file is automatically @generated.
* $FreeBSD$
*/

#define TARGET_FREEBSD_NR_syscall       0
#define TARGET_FREEBSD_NR_exit  1
#define TARGET_FREEBSD_NR_fork  2
#define TARGET_FREEBSD_NR_read  3
#define TARGET_FREEBSD_NR_write 4
#define TARGET_FREEBSD_NR_open  5
#define TARGET_FREEBSD_NR_close 6
#define TARGET_FREEBSD_NR_wait4 7
                        /* 8 is old creat */
#define TARGET_FREEBSD_NR_link  9
#define TARGET_FREEBSD_NR_unlink        10
```

```
                        /* 11 is obsolete execv */
#define TARGET_FREEBSD_NR_chdir 12
#define TARGET_FREEBSD_NR_fchdir        13
#define TARGET_FREEBSD_NR_freebsd11_mknod       14
#define TARGET_FREEBSD_NR_chmod 15
#define TARGET_FREEBSD_NR_chown 16
#define TARGET_FREEBSD_NR_break 17
                        /* 18 is freebsd4 getfsstat */
                        /* 19 is old lseek */
#define TARGET_FREEBSD_NR_getpid        20
#define TARGET_FREEBSD_NR_mount 21
#define
 TARGET_FREEBSD_NR_unmount       22
#define TARGET_FREEBSD_NR_setuid        23
#define TARGET_FREEBSD_NR_getuid        24
#define TARGET_FREEBSD_NR_geteuid       25
#define TARGET_FREEBSD_NR_ptrace        26
#define TARGET_FREEBSD_NR_recvmsg       27
#define TARGET_FREEBSD_NR_sendmsg       28
#define TARGET_FREEBSD_NR_recvfrom      29
#define TARGET_FREEBSD_NR_accept        30
#define TARGET_FREEBSD_NR_getpeername   31
#define TARGET_FREEBSD_NR_getsockname   32
#define TARGET_FREEBSD_NR_access        33
#define TARGET_FREEBSD_NR_chflags       34
#define TARGET_FREEBSD_NR_fchflags      35
#define TARGET_FREEBSD_NR_sync  36
#define TARGET_FREEBSD_NR_kill  37
                        /* 38 is old stat */
#define TARGET_FREEBSD_NR_getppid       39
                        /* 40 is old lstat */
#define TARGET_FREEBSD_NR_dup   41
#define TARGET_FREEBSD_NR_freebsd10_pipe        42
#define TARGET_FREEBSD_NR_getegid       43
#define TARGET_FREEBSD_NR_profil        44
#define
 TARGET_FREEBSD_NR_ktrace        45
                        /* 46 is old sigaction */
#define TARGET_FREEBSD_NR_getgid        47
                        /* 48 is old sigprocmask */
#define TARGET_FREEBSD_NR_getlogin      49
#define TARGET_FREEBSD_NR_setlogin      50
#define TARGET_FREEBSD_NR_acct  51
                        /* 52 is old sigpending */
#define TARGET_FREEBSD_NR_sigaltstack   53
#define TARGET_FREEBSD_NR_ioctl 54
#define TARGET_FREEBSD_NR_reboot        55
#define TARGET_FREEBSD_NR_revoke        56
```

```
#define TARGET_FREEBSD_NR_symlink       57
#define TARGET_FREEBSD_NR_readlink      58
#define TARGET_FREEBSD_NR_execve        59
#define TARGET_FREEBSD_NR_umask 60
#define TARGET_FREEBSD_NR_chroot        61
                        /* 62 is old fstat */
                        /* 63 is old getkerninfo */
                        /* 64 is old getpagesize */
#define TARGET_FREEBSD_NR_msync 65
#define TARGET_FREEBSD_NR_vfork 66

                        /* 67 is obsolete vread */
                        /* 68 is obsolete vwrite */
#define TARGET_FREEBSD_NR_sbrk  69
#define TARGET_FREEBSD_NR_sstk  70
                        /* 71 is old mmap */
#define TARGET_FREEBSD_NR_freebsd11_vadvise     72
#define TARGET_FREEBSD_NR_munmap        73
#define TARGET_FREEBSD_NR_mprotect      74
#define TARGET_FREEBSD_NR_madvise       75
                        /* 76 is obsolete vhangup */
                        /* 77 is obsolete vlimit */
#define TARGET_FREEBSD_NR_mincore       78
#define TARGET_FREEBSD_NR_getgroups     79
#define TARGET_FREEBSD_NR_setgroups     80
#define TARGET_FREEBSD_NR_getpgrp       81
#define TARGET_FREEBSD_NR_setpgid       82
#define TARGET_FREEBSD_NR_setitimer     83
                        /* 84 is old wait */
#define TARGET_FREEBSD_NR_swapon        85
#define TARGET_FREEBSD_NR_getitimer     86
                        /* 87 is old gethostname */

                        /* 88 is old sethostname */
#define TARGET_FREEBSD_NR_getdtablesize 89
#define TARGET_FREEBSD_NR_dup2  90
#define TARGET_FREEBSD_NR_fcntl 92
#define TARGET_FREEBSD_NR_select        93
#define TARGET_FREEBSD_NR_fsync 95
#define TARGET_FREEBSD_NR_setpriority   96
#define TARGET_FREEBSD_NR_socket        97
#define TARGET_FREEBSD_NR_connect       98
                        /* 99 is old accept */
#define TARGET_FREEBSD_NR_getpriority   100
                        /* 101 is old send */
                        /* 102 is old recv */
                        /* 103 is old sigreturn */
#define TARGET_FREEBSD_NR_bind  104
```

```
#define TARGET_FREEBSD_NR_setsockopt    105
#define TARGET_FREEBSD_NR_listen        106
                        /* 107 is obsolete vtimes */
                        /* 108 is old sigvec */
                        /* 109 is old sigblock */
                        /* 110 is old sigsetmask */
                         /* 111 is old sigsuspend */
                        /* 112 is old sigstack */
                        /* 113 is old recvmsg */
                        /* 114 is old sendmsg */
                        /* 115 is obsolete vtrace */
#define TARGET_FREEBSD_NR_gettimeofday  116
#define TARGET_FREEBSD_NR_getrusage     117
#define TARGET_FREEBSD_NR_getsockopt    118
#define TARGET_FREEBSD_NR_readv 120
#define TARGET_FREEBSD_NR_writev        121
#define TARGET_FREEBSD_NR_settimeofday  122
#define TARGET_FREEBSD_NR_fchown        123
#define TARGET_FREEBSD_NR_fchmod        124
                        /* 125 is old recvfrom */
#define TARGET_FREEBSD_NR_setreuid      126
#define TARGET_FREEBSD_NR_setregid      127
#define TARGET_FREEBSD_NR_rename        128
                        /* 129 is old truncate */
                        /* 130 is old ftruncate */
#define TARGET_FREEBSD_NR_flock 131
#define TARGET_FREEBSD_NR_mkfifo
        132
#define TARGET_FREEBSD_NR_sendto        133
#define TARGET_FREEBSD_NR_shutdown      134
#define TARGET_FREEBSD_NR_socketpair    135
#define TARGET_FREEBSD_NR_mkdir 136
#define TARGET_FREEBSD_NR_rmdir 137
#define TARGET_FREEBSD_NR_utimes        138
                        /* 139 is obsolete 4.2 sigreturn */
#define TARGET_FREEBSD_NR_adjtime       140
                        /* 141 is old getpeername */
                        /* 142 is old gethostid */
                        /* 143 is old sethostid */
                        /* 144 is old getrlimit */
                        /* 145 is old setrlimit */
                        /* 146 is old killpg */
#define TARGET_FREEBSD_NR_setsid        147
#define TARGET_FREEBSD_NR_quotactl      148
                        /* 149 is old quota */
                        /* 150 is old getsockname */
#define TARGET_FREEBSD_NR_nlm_syscall   154
#define TARGET_FREEBSD_NR_nfssvc
```

```
155
                    /* 156 is old getdirentries */
                    /* 157 is freebsd4 statfs */
                    /* 158 is freebsd4 fstatfs */
#define TARGET_FREEBSD_NR_lgetfh        160
#define TARGET_FREEBSD_NR_getfh 161
                    /* 162 is freebsd4 getdomainname */
                    /* 163 is freebsd4 setdomainname */
                    /* 164 is freebsd4 uname */
#define TARGET_FREEBSD_NR_sysarch       165
#define TARGET_FREEBSD_NR_rtprio        166
#define TARGET_FREEBSD_NR_semsys        169
#define TARGET_FREEBSD_NR_msgsys        170
#define TARGET_FREEBSD_NR_shmsys        171
                    /* 173 is freebsd6 pread */
                    /* 174 is freebsd6 pwrite */
#define TARGET_FREEBSD_NR_setfib        175
#define TARGET_FREEBSD_NR_ntp_adjtime   176
#define TARGET_FREEBSD_NR_setgid        181
#define TARGET_FREEBSD_NR_setegid
   182
#define TARGET_FREEBSD_NR_seteuid       183
                    /* 184 is obsolete lfs_bmapv */
                    /* 185 is obsolete lfs_markv */
                    /* 186 is obsolete lfs_segclean */
                    /* 187 is obsolete lfs_segwait */
#define TARGET_FREEBSD_NR_freebsd11_stat        188
#define TARGET_FREEBSD_NR_freebsd11_fstat       189
#define TARGET_FREEBSD_NR_freebsd11_lstat       190
#define TARGET_FREEBSD_NR_pathconf      191
#define TARGET_FREEBSD_NR_fpathconf     192
#define TARGET_FREEBSD_NR_getrlimit     194
#define TARGET_FREEBSD_NR_setrlimit     195
#define TARGET_FREEBSD_NR_freebsd11_getdirentries       196
                    /* 197 is freebsd6 mmap */
#define TARGET_FREEBSD_NR___syscall     198
                    /* 199 is freebsd6 lseek */
                    /* 200 is freebsd6 truncate */
                    /* 201 is freebsd6 ftruncate */
#define
 TARGET_FREEBSD_NR___sysctl      202
#define TARGET_FREEBSD_NR_mlock 203
#define TARGET_FREEBSD_NR_munlock       204
#define TARGET_FREEBSD_NR_undelete      205
#define TARGET_FREEBSD_NR_futimes       206
#define TARGET_FREEBSD_NR_getpgid       207
#define TARGET_FREEBSD_NR_poll  209
#define TARGET_FREEBSD_NR_freebsd7___semctl     220
```

```
#define TARGET_FREEBSD_NR_semget        221
#define TARGET_FREEBSD_NR_semop 222
                        /* 223 is obsolete semconfig */
#define TARGET_FREEBSD_NR_freebsd7_msgctl       224
#define TARGET_FREEBSD_NR_msgget        225
#define TARGET_FREEBSD_NR_msgsnd        226
#define TARGET_FREEBSD_NR_msgrcv        227
#define TARGET_FREEBSD_NR_shmat 228
#define TARGET_FREEBSD_NR_freebsd7_shmctl       229
#define TARGET_FREEBSD_NR_shmdt 230
#define TARGET_FREEBSD_NR_shmget        231
#define TARGET_FREEBSD_NR_clock_gettime 232
#define TARGET_FREEBSD_NR_clock_settime 233
#define TARGET_FREEBSD_NR_clock_getres  234
#define TARGET_FREEBSD_NR_ktimer_create
 235
#define TARGET_FREEBSD_NR_ktimer_delete 236
#define TARGET_FREEBSD_NR_ktimer_settime        237
#define TARGET_FREEBSD_NR_ktimer_gettime        238
#define TARGET_FREEBSD_NR_ktimer_getoverrun     239
#define TARGET_FREEBSD_NR_nanosleep     240
#define TARGET_FREEBSD_NR_ffclock_getcounter    241
#define TARGET_FREEBSD_NR_ffclock_setestimate   242
#define TARGET_FREEBSD_NR_ffclock_getestimate   243
#define TARGET_FREEBSD_NR_clock_nanosleep       244
#define TARGET_FREEBSD_NR_clock_getcpuclockid2  247
#define TARGET_FREEBSD_NR_ntp_gettime   248
#define TARGET_FREEBSD_NR_minherit      250
#define TARGET_FREEBSD_NR_rfork 251
                        /* 252 is obsolete openbsd_poll */
#define TARGET_FREEBSD_NR_issetugid     253
#define TARGET_FREEBSD_NR_lchown        254
#define TARGET_FREEBSD_NR_aio_read      255
#define TARGET_FREEBSD_NR_aio_write     256
#define TARGET_FREEBSD_NR_lio_listio    257
#define TARGET_FREEBSD_NR_freebsd11_getdents    272
#define TARGET_FREEBSD_NR_lchmod
       274
                        /* 275 is obsolete netbsd_lchown */
#define TARGET_FREEBSD_NR_lutimes       276
                        /* 277 is obsolete netbsd_msync */
#define TARGET_FREEBSD_NR_freebsd11_nstat       278
#define TARGET_FREEBSD_NR_freebsd11_nfstat      279
#define TARGET_FREEBSD_NR_freebsd11_nlstat      280
#define TARGET_FREEBSD_NR_preadv        289
#define TARGET_FREEBSD_NR_pwritev       290
                        /* 297 is freebsd4 fhstatfs */
#define TARGET_FREEBSD_NR_fhopen        298
```

```
#define TARGET_FREEBSD_NR_freebsd11_fhstat      299
#define TARGET_FREEBSD_NR_modnext       300
#define TARGET_FREEBSD_NR_modstat       301
#define TARGET_FREEBSD_NR_modfnext      302
#define TARGET_FREEBSD_NR_modfind       303
#define TARGET_FREEBSD_NR_kldload       304
#define TARGET_FREEBSD_NR_kldunload     305
#define TARGET_FREEBSD_NR_kldfind       306
#define TARGET_FREEBSD_NR_kldnext       307
#define TARGET_FREEBSD_NR_kldstat       308
#define
 TARGET_FREEBSD_NR_kldfirstmod   309
#define TARGET_FREEBSD_NR_getsid        310
#define TARGET_FREEBSD_NR_setresuid     311
#define TARGET_FREEBSD_NR_setresgid     312
                        /* 313 is obsolete signanosleep */
#define TARGET_FREEBSD_NR_aio_return    314
#define TARGET_FREEBSD_NR_aio_suspend   315
#define TARGET_FREEBSD_NR_aio_cancel    316
#define TARGET_FREEBSD_NR_aio_error     317
                        /* 318 is freebsd6 aio_read */
                        /* 319 is freebsd6 aio_write */
                        /* 320 is freebsd6 lio_listio */
#define TARGET_FREEBSD_NR_yield 321
                        /* 322 is obsolete thr_sleep */
                        /* 323 is obsolete thr_wakeup */
#define TARGET_FREEBSD_NR_mlockall      324
#define TARGET_FREEBSD_NR_munlockall    325
#define TARGET_FREEBSD_NR___getcwd      326
#define TARGET_FREEBSD_NR_sched_setparam        327
#define TARGET_FREEBSD_NR_sched_getparam
       328
#define TARGET_FREEBSD_NR_sched_setscheduler    329
#define TARGET_FREEBSD_NR_sched_getscheduler    330
#define TARGET_FREEBSD_NR_sched_yield   331
#define TARGET_FREEBSD_NR_sched_get_priority_max        332
#define TARGET_FREEBSD_NR_sched_get_priority_min        333
#define TARGET_FREEBSD_NR_sched_rr_get_interval 334
#define TARGET_FREEBSD_NR_utrace        335
                        /* 336 is freebsd4 sendfile */
#define TARGET_FREEBSD_NR_kldsym        337
#define TARGET_FREEBSD_NR_jail  338
#define TARGET_FREEBSD_NR_nnpfs_syscall 339
#define TARGET_FREEBSD_NR_sigprocmask   340
#define TARGET_FREEBSD_NR_sigsuspend    341
                        /* 342 is freebsd4 sigaction */
#define TARGET_FREEBSD_NR_sigpending    343
                        /* 344 is freebsd4 sigreturn */
```

```
#define TARGET_FREEBSD_NR_sigtimedwait  345
#define TARGET_FREEBSD_NR_sigwaitinfo   346
#define TARGET_FREEBSD_NR___acl_get_file        347
#define TARGET_FREEBSD_NR___acl_set_file
        348
#define TARGET_FREEBSD_NR___acl_get_fd  349
#define TARGET_FREEBSD_NR___acl_set_fd  350
#define TARGET_FREEBSD_NR___acl_delete_file     351
#define TARGET_FREEBSD_NR___acl_delete_fd       352
#define TARGET_FREEBSD_NR___acl_aclcheck_file   353
#define TARGET_FREEBSD_NR___acl_aclcheck_fd     354
#define TARGET_FREEBSD_NR_extattrctl    355
#define TARGET_FREEBSD_NR_extattr_set_file      356
#define TARGET_FREEBSD_NR_extattr_get_file      357
#define TARGET_FREEBSD_NR_extattr_delete_file   358
#define TARGET_FREEBSD_NR_aio_waitcomplete      359
#define TARGET_FREEBSD_NR_getresuid     360
#define TARGET_FREEBSD_NR_getresgid     361
#define TARGET_FREEBSD_NR_kqueue        362
#define TARGET_FREEBSD_NR_freebsd11_kevent      363
                        /* 364 is obsolete __cap_get_proc */
                        /* 365 is obsolete __cap_set_proc */
                        /* 366 is obsolete __cap_get_fd */
                        /* 367 is obsolete
 __cap_get_file */
                        /* 368 is obsolete __cap_set_fd */
                        /* 369 is obsolete __cap_set_file */
#define TARGET_FREEBSD_NR_extattr_set_fd        371
#define TARGET_FREEBSD_NR_extattr_get_fd        372
#define TARGET_FREEBSD_NR_extattr_delete_fd     373
#define TARGET_FREEBSD_NR___setugid     374
                        /* 375 is obsolete nfsclnt */
#define TARGET_FREEBSD_NR_eaccess       376
#define TARGET_FREEBSD_NR_afs3_syscall  377
#define TARGET_FREEBSD_NR_nmount        378
                        /* 379 is obsolete kse_exit */
                        /* 380 is obsolete kse_wakeup */
                        /* 381 is obsolete kse_create */
                        /* 382 is obsolete kse_thr_interrupt */
                        /* 383 is obsolete kse_release */
#define TARGET_FREEBSD_NR___mac_get_proc        384
#define TARGET_FREEBSD_NR___mac_set_proc        385
#define TARGET_FREEBSD_NR___mac_get_fd
  386
#define TARGET_FREEBSD_NR___mac_get_file        387
#define TARGET_FREEBSD_NR___mac_set_fd  388
#define TARGET_FREEBSD_NR___mac_set_file        389
#define TARGET_FREEBSD_NR_kenv  390
```

```
#define TARGET_FREEBSD_NR_lchflags      391
#define TARGET_FREEBSD_NR_uuidgen       392
#define TARGET_FREEBSD_NR_sendfile      393
#define TARGET_FREEBSD_NR_mac_syscall   394
#define TARGET_FREEBSD_NR_freebsd11_getfsstat   395
#define TARGET_FREEBSD_NR_freebsd11_statfs      396
#define TARGET_FREEBSD_NR_freebsd11_fstatfs     397
#define TARGET_FREEBSD_NR_freebsd11_fhstatfs    398
#define TARGET_FREEBSD_NR_ksem_close    400
#define TARGET_FREEBSD_NR_ksem_post     401
#define TARGET_FREEBSD_NR_ksem_wait     402
#define TARGET_FREEBSD_NR_ksem_trywait  403
#define TARGET_FREEBSD_NR_ksem_init     404
#define TARGET_FREEBSD_NR_ksem_open     405
#define TARGET_FREEBSD_NR_ksem_unlink   406
#define TARGET_FREEBSD_NR_ksem_getvalue 407
#define TARGET_FREEBSD_NR_ksem_destroy  408
#define
 TARGET_FREEBSD_NR___mac_get_pid 409
#define TARGET_FREEBSD_NR___mac_get_link        410
#define TARGET_FREEBSD_NR___mac_set_link        411
#define TARGET_FREEBSD_NR_extattr_set_link      412
#define TARGET_FREEBSD_NR_extattr_get_link      413
#define TARGET_FREEBSD_NR_extattr_delete_link   414
#define TARGET_FREEBSD_NR___mac_execve  415
#define TARGET_FREEBSD_NR_sigaction     416
#define TARGET_FREEBSD_NR_sigreturn     417
#define TARGET_FREEBSD_NR_getcontext    421
#define TARGET_FREEBSD_NR_setcontext    422
#define TARGET_FREEBSD_NR_swapcontext   423
#define TARGET_FREEBSD_NR_swapoff       424
#define TARGET_FREEBSD_NR___acl_get_link        425
#define TARGET_FREEBSD_NR___acl_set_link        426
#define TARGET_FREEBSD_NR___acl_delete_link     427
#define TARGET_FREEBSD_NR___acl_aclcheck_link   428
#define TARGET_FREEBSD_NR_sigwait       429
#define TARGET_FREEBSD_NR_thr_create    430
#define TARGET_FREEBSD_NR_thr_exit      431
#define TARGET_FREEBSD_NR_thr_self      432
#define TARGET_FREEBSD_NR_thr_kill
    433
#define TARGET_FREEBSD_NR_jail_attach   436
#define TARGET_FREEBSD_NR_extattr_list_fd       437
#define TARGET_FREEBSD_NR_extattr_list_file     438
#define TARGET_FREEBSD_NR_extattr_list_link     439
                        /* 440 is obsolete kse_switchin */
#define TARGET_FREEBSD_NR_ksem_timedwait        441
#define TARGET_FREEBSD_NR_thr_suspend   442
```

```
#define TARGET_FREEBSD_NR_thr_wake      443
#define TARGET_FREEBSD_NR_kldunloadf    444
#define TARGET_FREEBSD_NR_audit 445
#define TARGET_FREEBSD_NR_auditon       446
#define TARGET_FREEBSD_NR_getauid       447
#define TARGET_FREEBSD_NR_setauid       448
#define TARGET_FREEBSD_NR_getaudit      449
#define TARGET_FREEBSD_NR_setaudit      450
#define TARGET_FREEBSD_NR_getaudit_addr 451
#define TARGET_FREEBSD_NR_setaudit_addr 452
#define TARGET_FREEBSD_NR_auditctl      453
#define TARGET_FREEBSD_NR__umtx_op      454
#define TARGET_FREEBSD_NR_thr_new       455
#define TARGET_FREEBSD_NR_sigqueue
 456
#define TARGET_FREEBSD_NR_kmq_open      457
#define TARGET_FREEBSD_NR_kmq_setattr   458
#define TARGET_FREEBSD_NR_kmq_timedreceive      459
#define TARGET_FREEBSD_NR_kmq_timedsend 460
#define TARGET_FREEBSD_NR_kmq_notify    461
#define TARGET_FREEBSD_NR_kmq_unlink    462
#define TARGET_FREEBSD_NR_abort2        463
#define TARGET_FREEBSD_NR_thr_set_name  464
#define TARGET_FREEBSD_NR_aio_fsync     465
#define TARGET_FREEBSD_NR_rtprio_thread 466
#define TARGET_FREEBSD_NR_sctp_peeloff  471
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg  472
#define TARGET_FREEBSD_NR_sctp_generic_sendmsg_iov      473
#define TARGET_FREEBSD_NR_sctp_generic_recvmsg  474
#define TARGET_FREEBSD_NR_pread 475
#define TARGET_FREEBSD_NR_pwrite        476
#define TARGET_FREEBSD_NR_mmap  477
#define TARGET_FREEBSD_NR_lseek 478
#define TARGET_FREEBSD_NR_truncate      479
#define TARGET_FREEBSD_NR_ftruncate     480
#define TARGET_FREEBSD_NR_thr_kill2     481
#define TARGET_FREEBSD_NR_freebsd12_shm_open    482
#define
 TARGET_FREEBSD_NR_shm_unlink    483
#define TARGET_FREEBSD_NR_cpuset        484
#define TARGET_FREEBSD_NR_cpuset_setid  485
#define TARGET_FREEBSD_NR_cpuset_getid  486
#define TARGET_FREEBSD_NR_cpuset_getaffinity    487
#define TARGET_FREEBSD_NR_cpuset_setaffinity    488
#define TARGET_FREEBSD_NR_faccessat     489
#define TARGET_FREEBSD_NR_fchmodat      490
#define TARGET_FREEBSD_NR_fchownat      491
#define TARGET_FREEBSD_NR_fexecve       492
```

```
#define TARGET_FREEBSD_NR_freebsd11_fstatat     493
#define TARGET_FREEBSD_NR_futimesat     494
#define TARGET_FREEBSD_NR_linkat        495
#define TARGET_FREEBSD_NR_mkdirat       496
#define TARGET_FREEBSD_NR_mkfifoat      497
#define TARGET_FREEBSD_NR_freebsd11_mknodat     498
#define TARGET_FREEBSD_NR_openat        499
#define TARGET_FREEBSD_NR_readlinkat    500
#define TARGET_FREEBSD_NR_renameat      501
#define TARGET_FREEBSD_NR_symlinkat     502
#define TARGET_FREEBSD_NR_unlinkat      503
#define TARGET_FREEBSD_NR_posix_openpt  504
#define
 TARGET_FREEBSD_NR_gssd_syscall  505
#define TARGET_FREEBSD_NR_jail_get      506
#define TARGET_FREEBSD_NR_jail_set      507
#define TARGET_FREEBSD_NR_jail_remove   508
#define TARGET_FREEBSD_NR_freebsd12_closefrom   509
#define TARGET_FREEBSD_NR___semctl      510
#define TARGET_FREEBSD_NR_msgctl        511
#define TARGET_FREEBSD_NR_shmctl        512
#define TARGET_FREEBSD_NR_lpathconf     513
                        /* 514 is obsolete cap_new */
#define TARGET_FREEBSD_NR___cap_rights_get      515
#define TARGET_FREEBSD_NR_cap_enter     516
#define TARGET_FREEBSD_NR_cap_getmode   517
#define TARGET_FREEBSD_NR_pdfork        518
#define TARGET_FREEBSD_NR_pdkill        519
#define TARGET_FREEBSD_NR_pdgetpid      520
#define TARGET_FREEBSD_NR_pselect       522
#define TARGET_FREEBSD_NR_getloginclass 523
#define TARGET_FREEBSD_NR_setloginclass 524
#define TARGET_FREEBSD_NR_rctl_get_racct        525
#define TARGET_FREEBSD_NR_rctl_get_rules        526
#define TARGET_FREEBSD_NR_rctl_get_limits
    527
#define TARGET_FREEBSD_NR_rctl_add_rule 528
#define TARGET_FREEBSD_NR_rctl_remove_rule      529
#define TARGET_FREEBSD_NR_posix_fallocate       530
#define TARGET_FREEBSD_NR_posix_fadvise 531
#define TARGET_FREEBSD_NR_wait6 532
#define TARGET_FREEBSD_NR_cap_rights_limit      533
#define TARGET_FREEBSD_NR_cap_ioctls_limit      534
#define TARGET_FREEBSD_NR_cap_ioctls_get        535
#define TARGET_FREEBSD_NR_cap_fcntls_limit      536
#define TARGET_FREEBSD_NR_cap_fcntls_get        537
#define TARGET_FREEBSD_NR_bindat        538
#define TARGET_FREEBSD_NR_connectat     539
```

```
#define TARGET_FREEBSD_NR_chflagsat     540
#define TARGET_FREEBSD_NR_accept4       541
#define TARGET_FREEBSD_NR_pipe2 542
#define TARGET_FREEBSD_NR_aio_mlock     543
#define TARGET_FREEBSD_NR_procctl       544
#define TARGET_FREEBSD_NR_ppoll 545
#define TARGET_FREEBSD_NR_futimens      546
#define TARGET_FREEBSD_NR_utimensat     547
                        /* 548 is obsolete numa_getaffinity
 */
                        /* 549 is obsolete numa_setaffinity */
#define TARGET_FREEBSD_NR_fdatasync     550
#define TARGET_FREEBSD_NR_fstat 551
#define TARGET_FREEBSD_NR_fstatat       552
#define TARGET_FREEBSD_NR_fhstat        553
#define TARGET_FREEBSD_NR_getdirentries 554
#define TARGET_FREEBSD_NR_statfs        555
#define TARGET_FREEBSD_NR_fstatfs       556
#define TARGET_FREEBSD_NR_getfsstat     557
#define TARGET_FREEBSD_NR_fhstatfs      558
#define TARGET_FREEBSD_NR_mknodat       559
#define TARGET_FREEBSD_NR_kevent        560
#define TARGET_FREEBSD_NR_cpuset_getdomain      561
#define TARGET_FREEBSD_NR_cpuset_setdomain      562
#define TARGET_FREEBSD_NR_getrandom     563
#define TARGET_FREEBSD_NR_getfhat       564
#define TARGET_FREEBSD_NR_fhlink        565
#define TARGET_FREEBSD_NR_fhlinkat      566
#define TARGET_FREEBSD_NR_fhreadlink    567
#define TARGET_FREEBSD_NR_funlinkat     568
#define TARGET_FREEBSD_NR_copy_file_range       569
#define TARGET_FREEBSD_NR___sysctlbyname
        570
#define TARGET_FREEBSD_NR_shm_open2     571
#define TARGET_FREEBSD_NR_shm_rename    572
#define TARGET_FREEBSD_NR_sigfastblock  573
#define TARGET_FREEBSD_NR___realpathat  574
#define TARGET_FREEBSD_NR_close_range   575
#define TARGET_FREEBSD_NR_rpctls_syscall        576
#define TARGET_FREEBSD_NR_MAXSYSCALL    577
/*
*  i386 dependent signal definitions
*
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*/
#ifndef TARGET_ARCH_SIGNAL_H
#define TARGET_ARCH_SIGNAL_H

#include "cpu.h"

/* Size of the signal trampolin code placed on the stack. */
#define TARGET_SZSIGCODE    0

/* compare to  x86/include/_limits.h */
#define TARGET_MINSIGSTKSZ  (512 * 4)              /* min sig stack size */
#define TARGET_SIGSTKSZ
    (MINSIGSTKSZ + 32768)   /* recommended size */

struct target_sigcontext {
  /* to be added */
};

typedef struct target_mcontext {
} target_mcontext_t;

typedef struct target_ucontext {
  target_sigset_t   uc_sigmask;
  target_mcontext_t uc_mcontext;
  abi_ulong         uc_link;
  target_stack_t    uc_stack;
  int32_t           uc_flags;
  int32_t         __spare__[4];
} target_ucontext_t;

struct target_sigframe {
  abi_ulong   sf_signum;
  abi_ulong   sf_siginfo;    /* code or pointer to sf_si */
  abi_ulong   sf_ucontext;   /* points to sf_uc */
  abi_ulong   sf_addr;       /* undocumented 4th arg */
  target_ucontext_t   sf_uc; /* = *sf_uncontext */
  target_siginfo_t    sf_si; /* = *sf_siginfo (SA_SIGINFO case)*/
  uint32_t    __spare__[2];
};
```

```
/*
* Compare to i386/i386/machdep.c sendsig()
* Assumes that target stack frame memory is locked.
*/
static inline abi_long set_sigtramp_args(CPUX86State *regs,
       int sig, struct target_sigframe
 *frame, abi_ulong frame_addr,
       struct target_sigaction *ka)
{
   /* XXX return -TARGET_EOPNOTSUPP; */
   return 0;
}

/* Compare to i386/i386/machdep.c get_mcontext() */
static inline abi_long get_mcontext(CPUX86State *regs,
       target_mcontext_t *mcp, int flags)
{
   /* XXX */
   return -TARGET_EOPNOTSUPP;
}

/* Compare to i386/i386/machdep.c set_mcontext() */
static inline abi_long set_mcontext(CPUX86State *regs,
       target_mcontext_t *mcp, int srflag)
{
   /* XXX */
   return -TARGET_EOPNOTSUPP;
}

static inline abi_long get_ucontext_sigreturn(CPUX86State *regs,
                       abi_ulong target_sf, abi_ulong *target_uc)
{
   /* XXX */
   *target_uc = 0;
   return -TARGET_EOPNOTSUPP;
}

#endif /* TARGET_ARCH_SIGNAL_H */
/*
*  x86_64 thread support
*
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*/
#ifndef _TARGET_ARCH_THREAD_H_
#define _TARGET_ARCH_THREAD_H_

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
   abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
   /* XXX
 */
}

static inline void target_thread_init(struct target_pt_regs *regs,
   struct image_info *infop)
{
   regs->rax = 0;
   regs->rsp = infop->start_stack;
   regs->rip = infop->entry;
   if (bsd_type == target_freebsd) {
       regs->rdi = infop->start_stack;
   }
}

#endif /* !_TARGET_ARCH_THREAD_H_ */
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==========

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Key Dates
---
* August 3, 2017

Update the TianoCore Contribution Agreement from Version 1.0 to Version 1.1 to cover open source documentation associated with the TianoCore project.

Version 1.0 covers source code files. Version 1.1 is a backwards compatible extension that adds support for document files in both source form and compiled form.

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https://lists.01.org/pipermail/edk2-devel/2017-March/008654.html

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* April 9, 2019

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==========
= Code Contributions =
==========

To make a contribution to a TianoCore project, follow these steps.
1. Create a change description in the format specified below to
use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
and "Contributed-under" message.
3. Your "Contributed-under" message
explicitly states that the
contribution is made under the terms of the specified
contribution agreement. Your "Contributed-under" message
must include the name of contribution agreement and version.
For example: Contributed-under: TianoCore Contribution Agreement 1.1
The "TianoCore Contribution Agreement" is included below in

this document.

4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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```
=====================================================
= Change Description / Commit Message / Patch Email =
=====================================================
```

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [Repository/Branch
PATCH] Module: Brief-single-line-summary

Full-commit-message

Contributed-under: TianoCore Contribution Agreement 1.1
Signed-off-by: Contributor Name <contributor@example.com>

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

=== End of sample patch email message ===

=== Notes for sample patch email ===

* The first line of commit message is taken from the email's subject
  line following [Repository/Branch PATCH]. The remaining portion of the
  commit message is the email's content until the '---' line.
* git format-patch is one way to create this format

=== Definitions for sample patch email ===

* "Repository" is the identifier of the repository the patch applies.
  This identifier should only be provided for repositories other than
  'edk2'. For example 'edk2-BuildSpecification' or 'staging'.
* "Branch" is
the identifier of the branch the patch applies. This
  identifier should only be provided for branches other than 'edk2/master'.
  For example 'edk2/UDK2015', 'edk2-BuildSpecification/release/1.27', or
  'staging/edk2-test'.
* "Module" is a short identifier for the affected code or documentation. For
  example 'MdePkg', 'MdeModulePkg/UsbBusDxe', 'Introduction', or
  'EDK II INF File Format'.
* "Brief-single-line-summary" is a short summary of the change.
* The entire first line should be less than ~70 characters.
* "Full-commit-message" a verbose multiple line comment describing
  the change. Each line should be less than ~70 characters.
* "Contributed-under" explicitly states that the contribution is
  made under the terms of the contribution agreement. This
  agreement is included below in this document.
* "Signed-off-by" is the contributor's signature identifying them
  by their real/legal name and their email address.

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==========
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==========

To make a contribution to a TianoCore project, follow these steps.

1. Create a change description in the format specified below to
   use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature,
   and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the
   contribution is made under the terms of the specified
   contribution agreement. Your "Contributed-under" message
   must include the name of contribution
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   For example: Contributed-under: TianoCore Contribution Agreement 1.0
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4. Submit your code to the TianoCore project using the process
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   review will be required.

===
= Change Description / Commit Message / Patch Email =
===

Your change description should use the standard format for a
commit message, and must include your "Signed-off-by" signature
and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

```
  Contributed-under: TianoCore Contribution Agreement 1.0
  Signed-off-by: Contributor Name <contributor@example.com>
  ---

  An extra message for the patch email which will not be considered part
  of the commit message can be added here.

  Patch content inline or
attached

  === End of sample patch email message ===

  === Notes for sample patch email ===

  * The first line of commit message is taken from the email's subject
    line following [PATCH]. The remaining portion of the commit message
    is the email's content until the '---' line.
  * git format-patch is one way to create this format

  === Definitions for sample patch email ===

  * "CodeModule" is a short idenfier for the affected code.  For
    example MdePkg, or MdeModulePkg UsbBusDxe.
  * "Brief-single-line-summary" is a short summary of the change.
  * The entire first line should be less than ~70 characters.
  * "Full-commit-message" a verbose multiple line comment describing
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John R. Hauser
2018 January 20

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#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUARMState *env, int op,
      abi_ulong parms)
{
  int ret = 0;

  switch (op)
 {
  case TARGET_FREEBSD_ARM_SYNC_ICACHE:
  case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
      break;

  case TARGET_FREEBSD_ARM_SET_TP:
      target_cpu_set_tls(env, parms);
      break;

  case TARGET_FREEBSD_ARM_GET_TP:
      ret = target_cpu_get_tls(env);
      break;

  default:
      ret = -TARGET_EINVAL;
      break;
  }
```

```
    return ret;
}

static inline void do_freebsd_arch_print_sysarch(
        const struct syscallname *name, abi_long arg1, abi_long arg2,
        abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

    switch (arg1) {
    case TARGET_FREEBSD_ARM_SYNC_ICACHE:
        gemu_log("%s(ARM_SYNC_ICACHE, ...)", name->name);
        break;

    case TARGET_FREEBSD_ARM_DRAIN_WRITEBUF:
        gemu_log("%s(ARM_DRAIN_WRITEBUF, ...)", name->name);
        break;

    case TARGET_FREEBSD_ARM_SET_TP:
        gemu_log("%s(ARM_SET_TP, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
        break;

    case TARGET_FREEBSD_ARM_GET_TP:
        gemu_log("%s(ARM_GET_TP,
 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
        break;

    default:
        gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
    }
}

#endif /*!BSD_USER_ARCH_SYSARCH_H_ */
/*
*  i386 VM parameters definitions
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*/
#ifndef _TARGET_ARCH_VMPARAM_H_
#define _TARGET_ARCH_VMPARAM_H_

#include "cpu.h"

/* compare to i386/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)            /* max text size */
#define TARGET_DFLDSIZ  (128 * MiB)            /* initial data size limit
 */
#define TARGET_MAXDSIZ  (512 * MiB)            /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)              /* initial stack size limit */
#define TARGET_MAXSSIZ  (64 * MiB)             /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)            /* amount to grow stack */

#define TARGET_RESERVED_VA 0xf7000000

#define TARGET_USRSTACK (0xbfc00000)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
  return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
  state->regs[R_EDX] = retval2;
}

#endif /* !_TARGET_ARCH_VMPARAM_H_ */
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*  FreeBSD i386 register structures
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*/

#ifndef _TARGET_ARCH_REG_H_
#define _TARGET_ARCH_REG_H_

/* See sys/i386/include/reg.h */
typedef struct target_reg {
   uint32_t        r_fs;
   uint32_t        r_es;
   uint32_t        r_ds;
   uint32_t        r_edi;
   uint32_t
       r_esi;
   uint32_t        r_ebp;
   uint32_t        r_isp;
   uint32_t        r_ebx;
   uint32_t        r_edx;
   uint32_t        r_ecx;
   uint32_t        r_eax;
   uint32_t        r_trapno;
   uint32_t        r_err;
   uint32_t        r_eip;
   uint32_t        r_cs;
   uint32_t        r_eflags;
   uint32_t        r_esp;
   uint32_t        r_ss;
   uint32_t        r_gs;
} target_reg_t;

typedef struct target_fpreg {
   uint32_t        fpr_env[7];
   uint8_t         fpr_acc[8][10];
   uint32_t        fpr_ex_sw;
   uint8_t         fpr_pad[64];
} target_fpreg_t;

static inline void target_copy_regs(target_reg_t *regs, const CPUX86State *env)
{

   regs->r_fs = env->segs[R_FS].selector & 0xffff;
   regs->r_es = env->segs[R_ES].selector & 0xffff;
   regs->r_ds = env->segs[R_DS].selector & 0xffff;

   regs->r_edi = env->regs[R_EDI];
   regs->r_esi = env->regs[R_ESI];
   regs->r_ebp = env->regs[R_EBP];
   /* regs->r_isp = env->regs[R_ISP]; XXX */
```

```
  regs->r_ebx
 = env->regs[R_EBX];
  regs->r_edx = env->regs[R_EDX];
  regs->r_ecx = env->regs[R_ECX];
  regs->r_eax = env->regs[R_EAX];
  /* regs->r_trapno = env->regs[R_TRAPNO]; XXX */
  regs->r_err = env->error_code;  /* XXX ? */
  regs->r_eip = env->eip;

  regs->r_cs = env->segs[R_CS].selector & 0xffff;

  regs->r_eflags = env->eflags;
  regs->r_esp = env->regs[R_ESP];

  regs->r_ss = env->segs[R_SS].selector & 0xffff;
  regs->r_gs = env->segs[R_GS].selector & 0xffff;
}

#endif /* !_TARGET_ARCH_REG_H_ */

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/*
*  x86_64 ELF definitions
```

```
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*/
#ifndef _TARGET_ARCH_ELF_H_
#define _TARGET_ARCH_ELF_H_

#define ELF_START_MMAP 0x2aaaaab000ULL
#define ELF_ET_DYN_LOAD_ADDR    0x01021000
#define elf_check_arch(x) (((x) == ELF_ARCH))

#define ELF_HWCAP      0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define ELF_CLASS
     ELFCLASS64
#define ELF_DATA       ELFDATA2LSB
#define ELF_ARCH       EM_X86_64

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE       4096

#endif /* _TARGET_ARCH_ELF_H_ */
```

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```
bsd_user_ss.add(files(
 'os-sys.c',
))
/*
*  FreeBSD setup_initial_stack() implementation.
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#ifndef _TARGET_OS_STACK_H_
#define _TARGET_OS_STACK_H_

#include <sys/param.h>
#include "target_arch_sigtramp.h"
#include "qemu/guest-random.h"

/*
* The inital FreeBSD stack is as follows:
* (see kern/kern_exec.c exec_copyout_strings() )
 *
*  Hi Address -> char **ps_argvstr  (struct ps_strings for ps, w, etc.)
*               unsigned ps_nargvstr
*               char **ps_envstr
*  PS_STRINGS -> unsigned ps_nenvstr
*
*               machine dependent sigcode (sv_sigcode of size
*                                  sv_szsigcode)
*
*               execpath          (absolute image path for rtld)
*
*               SSP Canary        (sizeof(long) * 8)
*
*               page sizes array  (usually sizeof(u_long) )
*
*  "destp" ->    argv, env strings (up to 262144 bytes)
*/
static inline int setup_initial_stack(struct bsd_binprm *bprm,
       abi_ulong *ret_addr, abi_ulong *stringp)
{
   int i;
   abi_ulong stack_hi_addr;
   size_t execpath_len, stringspace;
   abi_ulong destp, argvp, envp, p;
   struct target_ps_strings ps_strs;
   char canary[sizeof(abi_long) * 8];

   stack_hi_addr = p = target_stkbas + target_stksiz;
```

```
/* Save some space for ps_strings. */
p -= sizeof(struct target_ps_strings);

 /* Add machine depedent sigcode. */
p -= TARGET_SZSIGCODE;
if (setup_sigtramp(p, (unsigned)offsetof(struct target_sigframe, sf_uc),
        TARGET_FREEBSD_NR_sigreturn)) {
    errno = EFAULT;
    return -1;
}
if (bprm->fullpath) {
    execpath_len = strlen(bprm->fullpath) + 1;
    p -= roundup(execpath_len, sizeof(abi_ulong));
    if (memcpy_to_target(p, bprm->fullpath, execpath_len)) {
        errno = EFAULT;
        return -1;
    }
}
/* Add canary for SSP. */
qemu_guest_getrandom_nofail(canary, sizeof(canary));
p -= roundup(sizeof(canary), sizeof(abi_ulong));
if (memcpy_to_target(p, canary, sizeof(canary))) {
    errno = EFAULT;
    return -1;
}
/* Add page sizes array. */
p -= sizeof(abi_ulong);
if (put_user_ual(TARGET_PAGE_SIZE, p)) {
    errno = EFAULT;
    return -1;
}
/*
 * Deviate from FreeBSD stack layout: force stack to new page here

* so that signal trampoline is not sharing the page with user stack
 * frames. This is actively harmful in qemu as it marks pages with
 * code it translated as read-only, which is somewhat problematic
 * for user trying to use the stack as intended.
 */
p = rounddown(p, TARGET_PAGE_SIZE);

/* Calculate the string space needed */
stringspace = 0;
for (i = 0; i < bprm->argc; ++i) {
    stringspace += strlen(bprm->argv[i]) + 1;
}
for (i = 0; i < bprm->envc; ++i) {
    stringspace += strlen(bprm->envp[i]) + 1;
```

```
 }
 if (stringspace > TARGET_ARG_MAX) {
     errno = ENOMEM;
     return -1;
 }
 /* Make room for the argv and envp strings */
 destp = rounddown(p - stringspace, sizeof(abi_ulong));
 p = argvp = destp - (bprm->argc + bprm->envc + 2) * sizeof(abi_ulong);
 /* Remember the strings pointer */
 if (stringp) {
     *stringp = destp;
 }
 /*
  * Add argv strings.  Note that the argv[] vectors are added
by
  * loader_build_argptr()
  */
 /* XXX need to make room for auxargs */
 ps_strs.ps_argvstr = tswapl(argvp);
 ps_strs.ps_nargvstr = tswap32(bprm->argc);
 for (i = 0; i < bprm->argc; ++i) {
     size_t len = strlen(bprm->argv[i]) + 1;

     if (memcpy_to_target(destp, bprm->argv[i], len)) {
         errno = EFAULT;
         return -1;
     }
     if (put_user_ual(destp, argvp)) {
         errno = EFAULT;
         return -1;
     }
     argvp += sizeof(abi_ulong);
     destp += len;
 }
 if (put_user_ual(0, argvp)) {
     errno = EFAULT;
     return -1;
 }
 /*
  * Add env strings. Note that the envp[] vectors are added by
  * loader_build_argptr().
  */
 envp = argvp + sizeof(abi_ulong);
 ps_strs.ps_envstr = tswapl(envp);
 ps_strs.ps_nenvstr = tswap32(bprm->envc);
 for (i = 0; i < bprm->envc; ++i) {
     size_t len = strlen(bprm->envp[i]) + 1;
```

```
        if (memcpy_to_target(destp, bprm->envp[i],
 len)) {
            errno = EFAULT;
            return -1;
        }
        if (put_user_ual(destp, envp)) {
            errno = EFAULT;
            return -1;
        }
        envp += sizeof(abi_ulong);
        destp += len;
    }
    if (put_user_ual(0, envp)) {
        errno = EFAULT;
        return -1;
    }
    if (memcpy_to_target(stack_hi_addr - sizeof(ps_strs), &ps_strs,
                sizeof(ps_strs))) {
        errno = EFAULT;
        return -1;
    }

    if (ret_addr) {
        *ret_addr = p;
    }

    return 0;
}

#endif /* !_TARGET_OS_STACK_H_ */
```

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/*
* Intel x86_64 specific prototypes for bsd-user
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*/

#ifndef _TARGET_ARCH_H_
#define _TARGET_ARCH_H_

/* target_arch_cpu.c */
void bsd_x86_64_write_dt(void *ptr, unsigned long addr, unsigned long limit,
             int flags);
void bsd_x86_64_set_idt(int n, unsigned int dpl);
void bsd_x86_64_set_idt_base(uint64_t
 base);

#define target_cpu_set_tls(env, newtls)

#endif /* !_TARGET_ARCH_H_ */
/*
*  mips system call definitions
*
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*/
#ifndef _MIPS_SYSCALL_H_
#define _MIPS_SYSCALL_H_

/*
* struct target_pt_regs defines the way the registers are stored on the stack
* during a system call.
*/

struct target_pt_regs {
   /* Saved main processor registers. */
```

```
  abi_ulong regs[32];

  /* Saved special registers. */
  abi_ulong
 cp0_status;
  abi_ulong lo;
  abi_ulong hi;
  abi_ulong cp0_badvaddr;
  abi_ulong cp0_cause;
  abi_ulong cp0_epc;
};

#if defined(TARGET_WORDS_BIGENDIAN)
#define UNAME_MACHINE "mips"
#else
#define UNAME_MACHINE "mipsel"
#endif

#define TARGET_HW_MACHINE       "mips"
#define TARGET_HW_MACHINE_ARCH   UNAME_MACHINE

/* sysarch() commands */
#define TARGET_MIPS_SET_TLS     1
#define TARGET_MIPS_GET_TLS     2

#endif /* !_MIPS_SYSCALL_H_ */
/*
*  Intel x86_64 VM parameters definitions
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*/
#ifndef _TARGET_ARCH_VMPARAM_H_
#define _TARGET_ARCH_VMPARAM_H_

#include "cpu.h"
```

```
/* compare to amd64/include/vmparam.h */
#define TARGET_MAXTSIZ  (128 * MiB)            /* max text size */
#define TARGET_DFLDSIZ  (32 * GiB)             /* initial data
 size limit */
#define TARGET_MAXDSIZ  (32 * GiB)             /* max data size */
#define TARGET_DFLSSIZ  (8 * MiB)              /* initial stack size limit */
#define TARGET_MAXSSIZ  (512 * MiB)            /* max stack size */
#define TARGET_SGROWSIZ (128 * KiB)            /* amount to grow stack */

#define TARGET_VM_MAXUSER_ADDRESS   (0x00007fffff000000UL)

#define TARGET_USRSTACK (TARGET_VM_MAXUSER_ADDRESS - TARGET_PAGE_SIZE)

static inline abi_ulong get_sp_from_cpustate(CPUX86State *state)
{
   return state->regs[R_ESP];
}

static inline void set_second_rval(CPUX86State *state, abi_ulong retval2)
{
   state->regs[R_EDX] = retval2;
}

#endif /* !_TARGET_ARCH_VMPARAM_H_ */
```

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#ifndef BSD_USER_ARCH_SYSCALL_H_
#define BSD_USER_ARCH_SYSCALL_H_

struct target_pt_regs {
   abi_long uregs[17];
};

#define ARM_cpsr    uregs[16]
#define ARM_pc      uregs[15]
#define ARM_lr      uregs[14]
#define ARM_sp      uregs[13]
#define ARM_ip      uregs[12]
#define ARM_fp      uregs[11]
#define ARM_r10     uregs[10]
#define ARM_r9      uregs[9]
#define ARM_r8      uregs[8]
#define ARM_r7      uregs[7]
#define ARM_r6      uregs[6]
#define ARM_r5      uregs[5]
#define ARM_r4      uregs[4]
#define ARM_r3      uregs[3]
#define ARM_r2      uregs[2]
#define ARM_r1      uregs[1]
#define ARM_r0      uregs[0]

#define ARM_SYSCALL_BASE    0 /* XXX: FreeBSD only */

#define TARGET_FREEBSD_ARM_SYNC_ICACHE      0
#define TARGET_FREEBSD_ARM_DRAIN_WRITEBUF   1
#define TARGET_FREEBSD_ARM_SET_TP       2
#define TARGET_FREEBSD_ARM_GET_TP       3

#define TARGET_HW_MACHINE       "arm"
#define TARGET_HW_MACHINE_ARCH  "armv6"

#endif /* !BSD_USER_ARCH_SYSCALL_H_ */
/*
*  FreeBSD host dependent code and definitions
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*/

#ifndef _HOST_OS_H_
#define _HOST_OS_H_

#define HOST_DEFAULT_BSD_TYPE target_freebsd

#endif /*!_HOST_OS_H_ */
```

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/*
*  qemu bsd user mode definition
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```

```
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*/
#ifndef QEMU_H
#define QEMU_H

#include "qemu/osdep.h"
#include "cpu.h"
#include "qemu/units.h"
#include "exec/cpu_ldst.h"
#include "exec/exec-all.h"

#undef DEBUG_REMAP

#include "exec/user/abitypes.h"

extern char **environ;

enum BSDType {
   target_freebsd,
   target_netbsd,
   target_openbsd,
};
extern
 enum BSDType bsd_type;

#include "exec/user/thunk.h"
#include "target_arch.h"
#include "syscall_defs.h"
#include "target_syscall.h"
#include "target_os_vmparam.h"
#include "target_os_signal.h"
#include "exec/gdbstub.h"

/*
* This struct is used to hold certain information about the image.  Basically,
* it replicates in user space what would be certain task_struct fields in the
* kernel
*/
struct image_info {
   abi_ulong load_bias;
   abi_ulong load_addr;
   abi_ulong start_code;
   abi_ulong end_code;
   abi_ulong start_data;
   abi_ulong end_data;
   abi_ulong start_brk;
```

```
  abi_ulong brk;
  abi_ulong start_mmap;
  abi_ulong mmap;
  abi_ulong rss;
  abi_ulong start_stack;
  abi_ulong entry;
  abi_ulong code_offset;
  abi_ulong data_offset;
  abi_ulong arg_start;
  abi_ulong arg_end;
  uint32_t  elf_flags;
};

#define MAX_SIGQUEUE_SIZE 1024

struct qemu_sigqueue {
  struct qemu_sigqueue *next;
  target_siginfo_t info;
};

struct emulated_sigtable
 {
  int pending; /* true if signal is pending */
  struct qemu_sigqueue *first;
  struct qemu_sigqueue info;  /* Put first signal info here */
};

/*
* NOTE: we force a big alignment so that the stack stored after is aligned too
*/
typedef struct TaskState {
  pid_t ts_tid;     /* tid (or pid) of this task */

  struct TaskState *next;
  struct bsd_binprm *bprm;
  struct image_info *info;

  struct emulated_sigtable sigtab[TARGET_NSIG];
  struct qemu_sigqueue sigqueue_table[MAX_SIGQUEUE_SIZE]; /* siginfo queue */
  struct qemu_sigqueue *first_free; /* first free siginfo queue entry */
  int signal_pending; /* non zero if a signal may be pending */

  uint8_t stack[];
} __attribute__((aligned(16))) TaskState;

void init_task_state(TaskState *ts);
void stop_all_tasks(void);
extern const char *qemu_uname_release;
```

```
/*
* TARGET_ARG_MAX defines the number of bytes allocated for arguments
* and envelope for the new program. 256k should suffice for a reasonable
 * maxiumum env+arg in 32-bit environments, bump it up to 512k for !ILP32
* platforms.
*/
#if TARGET_ABI_BITS > 32
#define TARGET_ARG_MAX (512 * KiB)
#else
#define TARGET_ARG_MAX (256 * KiB)
#endif
#define MAX_ARG_PAGES (TARGET_ARG_MAX / TARGET_PAGE_SIZE)

/*
* This structure is used to hold the arguments that are
* used when loading binaries.
*/
struct bsd_binprm {
	char buf[128];
	void *page[MAX_ARG_PAGES];
	abi_ulong p;
	abi_ulong stringp;
	int fd;
	int e_uid, e_gid;
	int argc, envc;
	char **argv;
	char **envp;
	char *filename;		/* (Given) Name of binary */
	char *fullpath;		/* Full path of binary */
	int (*core_dump)(int, CPUArchState *);
};

void do_init_thread(struct target_pt_regs *regs, struct image_info *infop);
abi_ulong loader_build_argptr(int envc, int argc, abi_ulong sp,
                              abi_ulong stringp);
int loader_exec(const char *filename, char **argv,
 char **envp,
             struct target_pt_regs *regs, struct image_info *infop,
             struct bsd_binprm *bprm);

int load_elf_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int load_flt_binary(struct bsd_binprm *bprm, struct target_pt_regs *regs,
                    struct image_info *info);
int is_target_elf_binary(int fd);

abi_long memcpy_to_target(abi_ulong dest, const void *src,
```

```
                    unsigned long len);
void target_set_brk(abi_ulong new_brk);
abi_long do_brk(abi_ulong new_brk);
void syscall_init(void);
abi_long do_freebsd_syscall(void *cpu_env, int num, abi_long arg1,
                     abi_long arg2, abi_long arg3, abi_long arg4,
                     abi_long arg5, abi_long arg6, abi_long arg7,
                     abi_long arg8);
abi_long do_netbsd_syscall(void *cpu_env, int num, abi_long arg1,
                    abi_long arg2, abi_long arg3, abi_long arg4,
                     abi_long arg5, abi_long arg6);
abi_long do_openbsd_syscall(void *cpu_env, int num, abi_long arg1,
                     abi_long arg2, abi_long arg3, abi_long arg4,
                     abi_long arg5, abi_long arg6);
void gemu_log(const char *fmt, ...) GCC_FMT_ATTR(1, 2);
extern __thread CPUState *thread_cpu;
void cpu_loop(CPUArchState *env);
char *target_strerror(int err);
int get_osversion(void);
void fork_start(void);
void fork_end(int child);

#include "qemu/log.h"

/* strace.c */
struct syscallname {
  int nr;
  const char *name;
  const char *format;
  void (*call)(const struct syscallname *,
            abi_long, abi_long, abi_long,
            abi_long, abi_long, abi_long);
  void (*result)(const struct syscallname *, abi_long);
};

void
print_freebsd_syscall(int num,
                  abi_long arg1, abi_long arg2, abi_long arg3,
                  abi_long arg4, abi_long arg5, abi_long arg6);
void print_freebsd_syscall_ret(int
 num, abi_long ret);
void
print_netbsd_syscall(int num,
                 abi_long arg1, abi_long arg2, abi_long arg3,
                 abi_long arg4, abi_long arg5, abi_long arg6);
void print_netbsd_syscall_ret(int num, abi_long ret);
void
print_openbsd_syscall(int num,
```

```
                abi_long arg1, abi_long arg2, abi_long arg3,
                abi_long arg4, abi_long arg5, abi_long arg6);
void print_openbsd_syscall_ret(int num, abi_long ret);
extern int do_strace;

/* signal.c */
void process_pending_signals(CPUArchState *cpu_env);
void signal_init(void);
long do_sigreturn(CPUArchState *env);
long do_rt_sigreturn(CPUArchState *env);
void queue_signal(CPUArchState *env, int sig, target_siginfo_t *info);
abi_long do_sigaltstack(abi_ulong uss_addr, abi_ulong uoss_addr, abi_ulong sp);

/* mmap.c */
int target_mprotect(abi_ulong start, abi_ulong len, int prot);
abi_long target_mmap(abi_ulong start, abi_ulong len, int prot,
                int
 flags, int fd, off_t offset);
int target_munmap(abi_ulong start, abi_ulong len);
abi_long target_mremap(abi_ulong old_addr, abi_ulong old_size,
                abi_ulong new_size, unsigned long flags,
                abi_ulong new_addr);
int target_msync(abi_ulong start, abi_ulong len, int flags);
extern unsigned long last_brk;
extern abi_ulong mmap_next_start;
abi_ulong mmap_find_vma(abi_ulong start, abi_ulong size);
void mmap_fork_start(void);
void mmap_fork_end(int child);

/* main.c */
extern char qemu_proc_pathname[];
extern unsigned long target_maxtsiz;
extern unsigned long target_dfldsiz;
extern unsigned long target_maxdsiz;
extern unsigned long target_dflssiz;
extern unsigned long target_maxssiz;
extern unsigned long target_sgrowsiz;

/* syscall.c */
abi_long get_errno(abi_long ret);
bool is_error(abi_long ret);

/* os-sys.c */
abi_long do_freebsd_sysarch(void *cpu_env, abi_long arg1, abi_long arg2);

/* user access */

#define VERIFY_READ  PAGE_READ
```

```
#define VERIFY_WRITE
 (PAGE_READ | PAGE_WRITE)

static inline bool access_ok(int type, abi_ulong addr, abi_ulong size)
{
   return page_check_range((target_ulong)addr, size, type) == 0;
}

/*
* NOTE __get_user and __put_user use host pointers and don't check access.
*
* These are usually used to access struct data members once the struct has been
* locked - usually with lock_user_struct().
*/
#define __put_user(x, hptr)\
({\
   int size = sizeof(*hptr);\
   switch (size) {\
   case 1:\
       *(uint8_t *)(hptr) = (uint8_t)(typeof(*hptr))(x);\
       break;\
   case 2:\
       *(uint16_t *)(hptr) = tswap16((typeof(*hptr))(x));\
       break;\
   case 4:\
       *(uint32_t *)(hptr) = tswap32((typeof(*hptr))(x));\
       break;\
   case 8:\
       *(uint64_t *)(hptr) = tswap64((typeof(*hptr))(x));\
       break;\
   default:\
       abort();\
   } \
   0;\
})

#define __get_user(x, hptr) \
({\
   int size = sizeof(*hptr);\
   switch (size) {\
   case 1:\
       x = (typeof(*hptr))*(uint8_t
 *)(hptr);\
       break;\
   case 2:\
       x = (typeof(*hptr))tswap16(*(uint16_t *)(hptr));\
       break;\
   case 4:\
```

```
        x = (typeof(*hptr))tswap32(*(uint32_t *)(hptr));\
        break;\
    case 8:\
        x = (typeof(*hptr))tswap64(*(uint64_t *)(hptr));\
        break;\
    default:\
        x = 0;\
        abort();\
    } \
    0;\
})

/*
* put_user()/get_user() take a guest address and check access
*
* These are usually used to access an atomic data type, such as an int, that
* has been passed by address.  These internally perform locking and unlocking
* on the data type.
*/
#define put_user(x, gaddr, target_type)                                \
({                                                                     \
    abi_ulong __gaddr = (gaddr);                                       \
    target_type *__hptr;                                               \
    abi_long __ret;                                                    \
    __hptr
 = lock_user(VERIFY_WRITE, __gaddr, sizeof(target_type), 0);  \
    if (__hptr) {                                                      \
        __ret = __put_user((x), __hptr);                               \
        unlock_user(__hptr, __gaddr, sizeof(target_type));             \
    } else                                                             \
        __ret = -TARGET_EFAULT;                                        \
    __ret;                                                             \
})

#define get_user(x, gaddr, target_type)                                \
({                                                                     \
    abi_ulong __gaddr = (gaddr);                                       \
    target_type *__hptr;                                               \
    abi_long __ret;                                                    \
    __hptr = lock_user(VERIFY_READ, __gaddr, sizeof(target_type), 1);   \
    if (__hptr) {
                                \
        __ret = __get_user((x), __hptr);                               \
        unlock_user(__hptr, __gaddr, 0);                               \
    } else {                                                           \
        (x) = 0;                                                       \
        __ret = -TARGET_EFAULT;                                        \
    }                                                                  \
```

```
   __ret;                                          \
})

#define put_user_ual(x, gaddr) put_user((x), (gaddr), abi_ulong)
#define put_user_sal(x, gaddr) put_user((x), (gaddr), abi_long)
#define put_user_u64(x, gaddr) put_user((x), (gaddr), uint64_t)
#define put_user_s64(x, gaddr) put_user((x), (gaddr), int64_t)
#define put_user_u32(x, gaddr) put_user((x), (gaddr), uint32_t)
#define put_user_s32(x, gaddr) put_user((x), (gaddr), int32_t)
#define put_user_u16(x, gaddr) put_user((x), (gaddr), uint16_t)
#define
 put_user_s16(x, gaddr) put_user((x), (gaddr), int16_t)
#define put_user_u8(x, gaddr)  put_user((x), (gaddr), uint8_t)
#define put_user_s8(x, gaddr)  put_user((x), (gaddr), int8_t)

#define get_user_ual(x, gaddr) get_user((x), (gaddr), abi_ulong)
#define get_user_sal(x, gaddr) get_user((x), (gaddr), abi_long)
#define get_user_u64(x, gaddr) get_user((x), (gaddr), uint64_t)
#define get_user_s64(x, gaddr) get_user((x), (gaddr), int64_t)
#define get_user_u32(x, gaddr) get_user((x), (gaddr), uint32_t)
#define get_user_s32(x, gaddr) get_user((x), (gaddr), int32_t)
#define get_user_u16(x, gaddr) get_user((x), (gaddr), uint16_t)
#define get_user_s16(x, gaddr) get_user((x), (gaddr), int16_t)
#define get_user_u8(x, gaddr)  get_user((x), (gaddr), uint8_t)
#define get_user_s8(x, gaddr)  get_user((x), (gaddr), int8_t)

/*
* copy_from_user() and copy_to_user() are usually used to copy data
* buffers between the target and host.  These internally perform
* locking/unlocking of the memory.
 */
abi_long copy_from_user(void *hptr, abi_ulong gaddr, size_t len);
abi_long copy_to_user(abi_ulong gaddr, void *hptr, size_t len);

/*
* Functions for accessing guest memory.  The tget and tput functions
* read/write single values, byteswapping as necessary.  The lock_user function
* gets a pointer to a contiguous area of guest memory, but does not perform
* any byteswapping.  lock_user may return either a pointer to the guest
* memory, or a temporary buffer.
*/

/*
* Lock an area of guest memory into the host.  If copy is true then the
* host area will have the same contents as the guest.
*/
static inline void *lock_user(int type, abi_ulong guest_addr, long len,
                              int copy)
```

```
{
  if (!access_ok(type, guest_addr, len)) {
      return NULL;
  }
#ifdef DEBUG_REMAP
  {
      void *addr;
      addr = g_malloc(len);
      if (copy) {
          memcpy(addr, g2h_untagged(guest_addr), len);
      } else {
          memset(addr, 0, len);
       }
      return addr;
  }
#else
  return g2h_untagged(guest_addr);
#endif
}

/*
* Unlock an area of guest memory.  The first LEN bytes must be flushed back to
* guest memory. host_ptr = NULL is explicitly allowed and does nothing.
*/
static inline void unlock_user(void *host_ptr, abi_ulong guest_addr,
                               long len)
{

#ifdef DEBUG_REMAP
  if (!host_ptr) {
      return;
  }
  if (host_ptr == g2h_untagged(guest_addr)) {
      return;
  }
  if (len > 0) {
      memcpy(g2h_untagged(guest_addr), host_ptr, len);
  }
  g_free(host_ptr);
#endif
}

/*
* Return the length of a string in target memory or -TARGET_EFAULT if access
* error.
*/
abi_long target_strlen(abi_ulong gaddr);
```

```
/* Like lock_user but for null terminated strings.  */
static inline void *lock_user_string(abi_ulong guest_addr)
{
   abi_long len;
   len = target_strlen(guest_addr);
   if (len < 0) {
       return NULL;
   }
   return lock_user(VERIFY_READ, guest_addr,
 (long)(len + 1), 1);
}

/* Helper macros for locking/unlocking a target struct.  */
#define lock_user_struct(type, host_ptr, guest_addr, copy)      \
   (host_ptr = lock_user(type, guest_addr, sizeof(*host_ptr), copy))
#define unlock_user_struct(host_ptr, guest_addr, copy)          \
   unlock_user(host_ptr, guest_addr, (copy) ? sizeof(*host_ptr) : 0)

#include <pthread.h>

#endif /* QEMU_H */
/*
* Intel x86_64  sigcode for bsd-user
*
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*/

#ifndef _TARGET_ARCH_SIGTRAMP_H_
#define _TARGET_ARCH_SIGTRAMP_H_

static inline abi_long setup_sigtramp(abi_ulong offset, unsigned sigf_uc,
       unsigned sys_sigreturn)
{

   return 0;
```

```
}
#endif /* _TARGET_ARCH_SIGTRAMP_H_ */
/*
*  openbsd ELF definitions
*
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*/
#ifndef _TARGET_OS_ELF_H_
#define _TARGET_OS_ELF_H_

#include "target_arch_elf.h"
#include "elf.h"

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define
 ELIBBAD 80
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

#ifndef ELF_HWCAP
#define ELF_HWCAP 0
#endif

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
```

```
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 12

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,
                                          abi_ulong stringp,
                                          struct elfhdr *exec,
                                          abi_ulong load_addr,
                                           abi_ulong load_bias,
                                          abi_ulong interp_load_addr,
                                          struct image_info *info)
{
      abi_ulong sp;
      int size;
      abi_ulong u_platform;
      const char *k_platform;
      const int n = sizeof(elf_addr_t);

      sp = p;
      u_platform = 0;
      k_platform = ELF_PLATFORM;
      if (k_platform) {
         size_t len = strlen(k_platform) + 1;
         sp -= (len + n - 1) & ~(n - 1);
         u_platform = sp;
         /* FIXME - check return value of memcpy_to_target() for failure */
         memcpy_to_target(sp, k_platform, len);
      }
      /*
       * Force 16 byte _final_ alignment here for generality.
       */
      sp = sp & ~(abi_ulong)15;
      size = (DLINFO_ITEMS + 1) * 2;
      if (k_platform) {
```

```
        size += 2;
    }
#ifdef DLINFO_ARCH_ITEMS
    size += DLINFO_ARCH_ITEMS *
 2;
#endif
    size += envc + argc + 2;
    size += 1;                  /* argc itself */
    size *= n;
    if (size & 15) {
        sp -= 16 - (size & 15);
    }

    /*
     * OpenBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
        sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
      } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    NEW_AUX_ENT(AT_UID,
 (abi_ulong)getuid());
    NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    NEW_AUX_ENT(AT_HWCAP, (abi_ulong)ELF_HWCAP);
    NEW_AUX_ENT(AT_CLKTCK, (abi_ulong)sysconf(_SC_CLK_TCK));
    if (k_platform) {
        NEW_AUX_ENT(AT_PLATFORM, u_platform);
    }
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
    ARCH_DLINFO;
#endif
```

```
#undef NEW_AUX_ENT

	sp = loader_build_argptr(envc, argc, sp, stringp);
	return sp;
}

#endif /* _TARGET_OS_ELF_H_ */
/*
*  i386 ELF definitions
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*/
#ifndef _TARGET_ARCH_ELF_H_
#define _TARGET_ARCH_ELF_H_

#define ELF_START_MMAP 0x80000000
#define ELF_ET_DYN_LOAD_ADDR	0x01001000
#define elf_check_arch(x) (((x) == EM_386) || ((x) == EM_486))

#define ELF_HWCAP	0 /* FreeBSD doesn't do AT_HWCAP{,2} on x86 */

#define
 ELF_CLASS	ELFCLASS32
#define ELF_DATA	ELFDATA2LSB
#define ELF_ARCH	EM_386

#define USE_ELF_CORE_DUMP
#define ELF_EXEC_PAGESIZE	4096

#endif /* _TARGET_ARCH_ELF_H_ */
/*
*  NetBSD thread dependent code and definitions
*
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*
```

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*/

#ifndef _TARGET_OS_THREAD_H_
#define _TARGET_OS_THREAD_H_

#include "target_arch_thread.h"

#endif /* !_TARGET_OS_THREAD_H_ */
/*	$OpenBSD: syscall.h,v 1.101 2008/03/16 19:43:41 otto Exp $	*/

/*
* System call numbers.
*
* created from;	OpenBSD: syscalls.master,v 1.90 2008/03/16 19:42:57 otto Exp
*/

#define TARGET_OPENBSD_NR_syscall	0
#define TARGET_OPENBSD_NR_exit	1
#define TARGET_OPENBSD_NR_fork	2
#define TARGET_OPENBSD_NR_read	3
#define TARGET_OPENBSD_NR_write	4
#define TARGET_OPENBSD_NR_open	5
#define TARGET_OPENBSD_NR_close	6
#define TARGET_OPENBSD_NR_wait4	7
#define TARGET_OPENBSD_NR_link	9
#define TARGET_OPENBSD_NR_unlink	10
#define TARGET_OPENBSD_NR_chdir	12
#define TARGET_OPENBSD_NR_fchdir	13
#define TARGET_OPENBSD_NR_mknod	14
#define TARGET_OPENBSD_NR_chmod	15
#define TARGET_OPENBSD_NR_chown	16
#define TARGET_OPENBSD_NR_break	17
#define TARGET_OPENBSD_NR_getpid	20
#define TARGET_OPENBSD_NR_mount	21
#define TARGET_OPENBSD_NR_unmount	22
#define TARGET_OPENBSD_NR_setuid
```

```
23
#define TARGET_OPENBSD_NR_getuid      24
#define TARGET_OPENBSD_NR_geteuid     25
#define TARGET_OPENBSD_NR_ptrace      26
#define TARGET_OPENBSD_NR_recvmsg     27
#define TARGET_OPENBSD_NR_sendmsg     28
#define TARGET_OPENBSD_NR_recvfrom    29
#define TARGET_OPENBSD_NR_accept      30
#define TARGET_OPENBSD_NR_getpeername 31
#define TARGET_OPENBSD_NR_getsockname 32
#define TARGET_OPENBSD_NR_access      33
#define TARGET_OPENBSD_NR_chflags     34
#define TARGET_OPENBSD_NR_fchflags    35
#define TARGET_OPENBSD_NR_sync        36
#define TARGET_OPENBSD_NR_kill        37
#define TARGET_OPENBSD_NR_getppid     39
#define TARGET_OPENBSD_NR_dup 41
#define TARGET_OPENBSD_NR_opipe       42
#define TARGET_OPENBSD_NR_getegid     43
#define TARGET_OPENBSD_NR_profil      44
#define TARGET_OPENBSD_NR_ktrace      45
#define TARGET_OPENBSD_NR_sigaction   46
#define TARGET_OPENBSD_NR_getgid      47
#define TARGET_OPENBSD_NR_sigprocmask 48
#define TARGET_OPENBSD_NR_getlogin    49
#define TARGET_OPENBSD_NR_setlogin
50
#define TARGET_OPENBSD_NR_acct        51
#define TARGET_OPENBSD_NR_sigpending  52
#define TARGET_OPENBSD_NR_osigaltstack        53
#define TARGET_OPENBSD_NR_ioctl       54
#define TARGET_OPENBSD_NR_reboot      55
#define TARGET_OPENBSD_NR_revoke      56
#define TARGET_OPENBSD_NR_symlink     57
#define TARGET_OPENBSD_NR_readlink    58
#define TARGET_OPENBSD_NR_execve      59
#define TARGET_OPENBSD_NR_umask       60
#define TARGET_OPENBSD_NR_chroot      61
#define TARGET_OPENBSD_NR_vfork       66
#define TARGET_OPENBSD_NR_sbrk        69
#define TARGET_OPENBSD_NR_sstk        70
#define TARGET_OPENBSD_NR_munmap      73
#define TARGET_OPENBSD_NR_mprotect    74
#define TARGET_OPENBSD_NR_madvise     75
#define TARGET_OPENBSD_NR_mincore     78
#define TARGET_OPENBSD_NR_getgroups   79
#define TARGET_OPENBSD_NR_setgroups   80
#define TARGET_OPENBSD_NR_getpgrp     81
```

```
#define TARGET_OPENBSD_NR_setpgid     82
#define TARGET_OPENBSD_NR_setitimer   83
#define TARGET_OPENBSD_NR_getitimer
  86
#define TARGET_OPENBSD_NR_dup2        90
#define TARGET_OPENBSD_NR_fcntl       92
#define TARGET_OPENBSD_NR_select      93
#define TARGET_OPENBSD_NR_fsync       95
#define TARGET_OPENBSD_NR_setpriority 96
#define TARGET_OPENBSD_NR_socket      97
#define TARGET_OPENBSD_NR_connect     98
#define TARGET_OPENBSD_NR_getpriority 100
#define TARGET_OPENBSD_NR_sigreturn   103
#define TARGET_OPENBSD_NR_bind        104
#define TARGET_OPENBSD_NR_setsockopt  105
#define TARGET_OPENBSD_NR_listen      106
#define TARGET_OPENBSD_NR_sigsuspend  111
#define TARGET_OPENBSD_NR_gettimeofday        116
#define TARGET_OPENBSD_NR_getrusage   117
#define TARGET_OPENBSD_NR_getsockopt  118
#define TARGET_OPENBSD_NR_readv       120
#define TARGET_OPENBSD_NR_writev      121
#define TARGET_OPENBSD_NR_settimeofday        122
#define TARGET_OPENBSD_NR_fchown      123
#define TARGET_OPENBSD_NR_fchmod      124
#define TARGET_OPENBSD_NR_setreuid    126
#define TARGET_OPENBSD_NR_setregid    127
#define TARGET_OPENBSD_NR_rename
    128
#define TARGET_OPENBSD_NR_flock       131
#define TARGET_OPENBSD_NR_mkfifo      132
#define TARGET_OPENBSD_NR_sendto      133
#define TARGET_OPENBSD_NR_shutdown    134
#define TARGET_OPENBSD_NR_socketpair  135
#define TARGET_OPENBSD_NR_mkdir       136
#define TARGET_OPENBSD_NR_rmdir       137
#define TARGET_OPENBSD_NR_utimes      138
#define TARGET_OPENBSD_NR_adjtime     140
#define TARGET_OPENBSD_NR_setsid      147
#define TARGET_OPENBSD_NR_quotactl    148
#define TARGET_OPENBSD_NR_nfssvc      155
#define TARGET_OPENBSD_NR_getfh       161
#define TARGET_OPENBSD_NR_sysarch     165
#define TARGET_OPENBSD_NR_pread       173
#define TARGET_OPENBSD_NR_pwrite      174
#define TARGET_OPENBSD_NR_setgid      181
#define TARGET_OPENBSD_NR_setegid     182
#define TARGET_OPENBSD_NR_seteuid     183
```

```
#define TARGET_OPENBSD_NR_lfs_bmapv   184
#define TARGET_OPENBSD_NR_lfs_markv   185
#define TARGET_OPENBSD_NR_lfs_segclean        186
#define TARGET_OPENBSD_NR_lfs_segwait
 187
#define TARGET_OPENBSD_NR_pathconf    191
#define TARGET_OPENBSD_NR_fpathconf   192
#define TARGET_OPENBSD_NR_swapctl     193
#define TARGET_OPENBSD_NR_getrlimit   194
#define TARGET_OPENBSD_NR_setrlimit   195
#define TARGET_OPENBSD_NR_getdirentries       196
#define TARGET_OPENBSD_NR_mmap        197
#define TARGET_OPENBSD_NR___syscall   198
#define TARGET_OPENBSD_NR_lseek       199
#define TARGET_OPENBSD_NR_truncate    200
#define TARGET_OPENBSD_NR_ftruncate   201
#define TARGET_OPENBSD_NR___sysctl    202
#define TARGET_OPENBSD_NR_mlock       203
#define TARGET_OPENBSD_NR_munlock     204
#define TARGET_OPENBSD_NR_futimes     206
#define TARGET_OPENBSD_NR_getpgid     207
#define TARGET_OPENBSD_NR_xfspioctl   208
#define TARGET_OPENBSD_NR_semget      221
#define TARGET_OPENBSD_NR_msgget      225
#define TARGET_OPENBSD_NR_msgsnd      226
#define TARGET_OPENBSD_NR_msgrcv      227
#define TARGET_OPENBSD_NR_shmat       228
#define TARGET_OPENBSD_NR_shmdt       230
#define TARGET_OPENBSD_NR_clock_gettime
     232
#define TARGET_OPENBSD_NR_clock_settime       233
#define TARGET_OPENBSD_NR_clock_getres        234
#define TARGET_OPENBSD_NR_nanosleep   240
#define TARGET_OPENBSD_NR_minherit    250
#define TARGET_OPENBSD_NR_rfork       251
#define TARGET_OPENBSD_NR_poll        252
#define TARGET_OPENBSD_NR_issetugid   253
#define TARGET_OPENBSD_NR_lchown      254
#define TARGET_OPENBSD_NR_getsid      255
#define TARGET_OPENBSD_NR_msync       256
#define TARGET_OPENBSD_NR_pipe        263
#define TARGET_OPENBSD_NR_fhopen      264
#define TARGET_OPENBSD_NR_preadv      267
#define TARGET_OPENBSD_NR_pwritev     268
#define TARGET_OPENBSD_NR_kqueue      269
#define TARGET_OPENBSD_NR_kevent      270
#define TARGET_OPENBSD_NR_mlockall    271
#define TARGET_OPENBSD_NR_munlockall  272
```

```
#define TARGET_OPENBSD_NR_getpeereid  273
#define TARGET_OPENBSD_NR_getresuid   281
#define TARGET_OPENBSD_NR_setresuid   282
#define TARGET_OPENBSD_NR_getresgid   283
#define TARGET_OPENBSD_NR_setresgid
   284
#define TARGET_OPENBSD_NR_mquery      286
#define TARGET_OPENBSD_NR_closefrom   287
#define TARGET_OPENBSD_NR_sigaltstack 288
#define TARGET_OPENBSD_NR_shmget      289
#define TARGET_OPENBSD_NR_semop       290
#define TARGET_OPENBSD_NR_stat        291
#define TARGET_OPENBSD_NR_fstat       292
#define TARGET_OPENBSD_NR_lstat       293
#define TARGET_OPENBSD_NR_fhstat      294
#define TARGET_OPENBSD_NR___semctl    295
#define TARGET_OPENBSD_NR_shmctl      296
#define TARGET_OPENBSD_NR_msgctl      297
#define TARGET_OPENBSD_NR_sched_yield 298
#define TARGET_OPENBSD_NR_getthrid    299
#define TARGET_OPENBSD_NR_thrsleep    300
#define TARGET_OPENBSD_NR_thrwakeup   301
#define TARGET_OPENBSD_NR_threxit     302
#define TARGET_OPENBSD_NR_thrsigdivert        303
#define TARGET_OPENBSD_NR___getcwd    304
#define TARGET_OPENBSD_NR_adjfreq     305
#define TARGET_OPENBSD_NR_getfsstat   306
#define TARGET_OPENBSD_NR_statfs      307
#define TARGET_OPENBSD_NR_fstatfs     308
#define TARGET_OPENBSD_NR_fhstatfs
   309

/* syscall flags from machine/trap.h */

/*      $OpenBSD: trap.h,v 1.4 2008/07/04 22:04:37 kettenis Exp $       */
/*      $NetBSD: trap.h,v 1.4 1999/06/07 05:28:04 eeh Exp $ */

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*
*/
#define TARGET_OPENBSD_SYSCALL_G2RFLAG 0x400   /* on success, return to %g2 rather than npc */
#define TARGET_OPENBSD_SYSCALL_G7RFLAG 0x800   /* use %g7 as above (deprecated) */
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*  NetBSD host dependent code and definitions
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*/

#ifndef _HOST_OS_H_
#define _HOST_OS_H_

#define HOST_DEFAULT_BSD_TYPE target_netbsd

#endif /*!_HOST_OS_H_ */
/*
*  i386 cpu init and loop
*
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*/

#ifndef _TARGET_ARCH_CPU_H_
#define _TARGET_ARCH_CPU_H_

#include "target_arch.h"

#define TARGET_DEFAULT_CPU_MODEL "qemu32"

static inline void target_cpu_init(CPUX86State *env,
      struct target_pt_regs *regs)
{
  uint64_t *gdt_table;

  env->cr[0] = CR0_PG_MASK | CR0_WP_MASK | CR0_PE_MASK;

 env->hflags |= HF_PE_MASK | HF_CPL_MASK;
  if (env->features[FEAT_1_EDX] & CPUID_SSE) {
      env->cr[4] |= CR4_OSFXSR_MASK;
      env->hflags |= HF_OSFXSR_MASK;
  }

  /* flags setup : we activate the IRQs by default as in user mode */
  env->eflags |= IF_MASK;

  /* register setup */
  env->regs[R_EAX] = regs->eax;
  env->regs[R_EBX] = regs->ebx;
  env->regs[R_ECX] = regs->ecx;
  env->regs[R_EDX] = regs->edx;
  env->regs[R_ESI] = regs->esi;
  env->regs[R_EDI] = regs->edi;
  env->regs[R_EBP] = regs->ebp;
  env->regs[R_ESP] = regs->esp;
  env->eip = regs->eip;

  /* interrupt setup */
  env->idt.limit = 255;

  env->idt.base = target_mmap(0, sizeof(uint64_t) * (env->idt.limit + 1),
      PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
```

```
  bsd_i386_set_idt_base(env->idt.base);
  bsd_i386_set_idt(0, 0);
  bsd_i386_set_idt(1, 0);
  bsd_i386_set_idt(2, 0);
  bsd_i386_set_idt(3, 3);
  bsd_i386_set_idt(4, 3);
  bsd_i386_set_idt(5,
0);
  bsd_i386_set_idt(6, 0);
  bsd_i386_set_idt(7, 0);
  bsd_i386_set_idt(8, 0);
  bsd_i386_set_idt(9, 0);
  bsd_i386_set_idt(10, 0);
  bsd_i386_set_idt(11, 0);
  bsd_i386_set_idt(12, 0);
  bsd_i386_set_idt(13, 0);
  bsd_i386_set_idt(14, 0);
  bsd_i386_set_idt(15, 0);
  bsd_i386_set_idt(16, 0);
  bsd_i386_set_idt(17, 0);
  bsd_i386_set_idt(18, 0);
  bsd_i386_set_idt(19, 0);
  bsd_i386_set_idt(0x80, 3);

  /* segment setup */
  env->gdt.base = target_mmap(0, sizeof(uint64_t) * TARGET_GDT_ENTRIES,
        PROT_READ | PROT_WRITE, MAP_ANONYMOUS | MAP_PRIVATE, -1, 0);
  env->gdt.limit = sizeof(uint64_t) * TARGET_GDT_ENTRIES - 1;
  gdt_table = g2h_untagged(env->gdt.base);

  bsd_i386_write_dt(&gdt_table[__USER_CS >> 3], 0, 0xfffff,
        DESC_G_MASK | DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
        (3 << DESC_DPL_SHIFT) | (0xa << DESC_TYPE_SHIFT));

  bsd_i386_write_dt(&gdt_table[__USER_DS >> 3], 0, 0xfffff,
        DESC_G_MASK
| DESC_B_MASK | DESC_P_MASK | DESC_S_MASK |
        (3 << DESC_DPL_SHIFT) | (0x2 << DESC_TYPE_SHIFT));

  cpu_x86_load_seg(env, R_CS, __USER_CS);
  cpu_x86_load_seg(env, R_SS, __USER_DS);
  cpu_x86_load_seg(env, R_DS, __USER_DS);
  cpu_x86_load_seg(env, R_ES, __USER_DS);
  cpu_x86_load_seg(env, R_FS, __USER_DS);
  cpu_x86_load_seg(env, R_GS, __USER_DS);
  /* This hack makes Wine work... */
  env->segs[R_FS].selector = 0;
}
```

```
static inline void target_cpu_loop(CPUX86State *env)
{
  CPUState *cs = env_cpu(env);
  int trapnr;
  abi_ulong pc;
  /* target_siginfo_t info; */

  for (;;) {
     cpu_exec_start(cs);
     trapnr = cpu_exec(cs);
     cpu_exec_end(cs);
     process_queued_cpu_work(cs);

     switch (trapnr) {
     case 0x80:
        /* syscall from int $0x80 */
        if (bsd_type == target_freebsd) {
           abi_ulong params = (abi_ulong) env->regs[R_ESP] +
              sizeof(int32_t);
           int32_t
 syscall_nr = env->regs[R_EAX];
           int32_t arg1, arg2, arg3, arg4, arg5, arg6, arg7, arg8;

           if (syscall_nr == TARGET_FREEBSD_NR_syscall) {
              get_user_s32(syscall_nr, params);
              params += sizeof(int32_t);
           } else if (syscall_nr == TARGET_FREEBSD_NR___syscall) {
              get_user_s32(syscall_nr, params);
              params += sizeof(int64_t);
           }
           get_user_s32(arg1, params);
           params += sizeof(int32_t);
           get_user_s32(arg2, params);
           params += sizeof(int32_t);
           get_user_s32(arg3, params);
           params += sizeof(int32_t);
           get_user_s32(arg4, params);
           params += sizeof(int32_t);
           get_user_s32(arg5, params);
           params += sizeof(int32_t);
           get_user_s32(arg6, params);
           params += sizeof(int32_t);

  get_user_s32(arg7, params);
           params += sizeof(int32_t);
           get_user_s32(arg8, params);
           env->regs[R_EAX] = do_freebsd_syscall(env,
```

```
                                        syscall_nr,
                                        arg1,
                                        arg2,
                                        arg3,
                                        arg4,
                                        arg5,
                                        arg6,
                                        arg7,
                                        arg8);
            } else { /* if (bsd_type == target_openbsd) */
                env->regs[R_EAX] = do_openbsd_syscall(env,
                                        env->regs[R_EAX],
                                        env->regs[R_EBX],

                                env->regs[R_ECX],
                                        env->regs[R_EDX],
                                        env->regs[R_ESI],
                                        env->regs[R_EDI],
                                        env->regs[R_EBP]);
            }
            if (((abi_ulong)env->regs[R_EAX]) >= (abi_ulong)(-515)) {
                env->regs[R_EAX] = -env->regs[R_EAX];
                env->eflags |= CC_C;
            } else {
                env->eflags &= ~CC_C;
            }
            break;

        case EXCP_INTERRUPT:
            /* just indicate that signals should be handled asap */
            break;

        case EXCP_ATOMIC:
            cpu_exec_step_atomic(cs);
            break;

        default:
            pc = env->segs[R_CS].base + env->eip;
            fprintf(stderr, "qemu: 0x%08lx: unhandled CPU exception 0x%x - "
                    "aborting\n", (long)pc,
 trapnr);
            abort();
        }
        process_pending_signals(env);
    }
}

static inline void target_cpu_clone_regs(CPUX86State *env, target_ulong newsp)
```

```
{
   if (newsp) {
       env->regs[R_ESP] = newsp;
   }
   env->regs[R_EAX] = 0;
}

static inline void target_cpu_reset(CPUArchState *cpu)
{
   cpu_reset(env_cpu(cpu));
}

#endif /* ! _TARGET_ARCH_CPU_H_ */
/*
*  i386 thread support
*
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*/
#ifndef _TARGET_ARCH_THREAD_H_
#define _TARGET_ARCH_THREAD_H_

/* Compare to vm_machdep.c cpu_set_upcall_kse() */
static inline void target_thread_set_upcall(CPUX86State *regs, abi_ulong entry,
   abi_ulong arg, abi_ulong stack_base, abi_ulong stack_size)
{
   /* XXX */
}

static
 inline void target_thread_init(struct target_pt_regs *regs,
       struct image_info *infop)
{
   regs->esp = infop->start_stack;
   regs->eip = infop->entry;
```

```
  /*
   * SVR4/i386 ABI (pages 3-31, 3-32) says that when the program starts %edx
   * contains a pointer to a function which might be registered using
   * `atexit'.  This provides a mean for the dynamic linker to call DT_FINI
   * functions for shared libraries that have been loaded before the code
   * runs.
   *
   * A value of 0 tells we have no such handler.
   */
  regs->edx = 0;
}

#endif /* !_TARGET_ARCH_THREAD_H_ */
/*
*  freebsd ELF definitions
*
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*/
#ifndef _TARGET_OS_ELF_H_
#define _TARGET_OS_ELF_H_

#include "target_arch_elf.h"
#include "elf.h"

#define bsd_get_ncpu() 1 /* until we pull in bsd-proc.[hc] */

/* this flag is uneffective under linux too, should be deleted */
#ifndef MAP_DENYWRITE
#define MAP_DENYWRITE
 0
#endif

/* should probably go in elf.h */
#ifndef ELIBBAD
#define ELIBBAD 80
```

```
#endif

#ifndef ELF_PLATFORM
#define ELF_PLATFORM (NULL)
#endif

/* XXX Look at the other conflicting AT_* values. */
#define FREEBSD_AT_NCPUS     19
#define FREEBSD_AT_HWCAP     25
#define FREEBSD_AT_HWCAP2    26

#ifdef TARGET_ABI32
#undef ELF_CLASS
#define ELF_CLASS ELFCLASS32
#undef bswaptls
#define bswaptls(ptr) bswap32s(ptr)
#endif

/* max code+data+bss space allocated to elf interpreter */
#define INTERP_MAP_SIZE (32 * 1024 * 1024)

/* max code+data+bss+brk space allocated to ET_DYN executables */
#define ET_DYN_MAP_SIZE (128 * 1024 * 1024)

/* Necessary parameters */
#define TARGET_ELF_EXEC_PAGESIZE TARGET_PAGE_SIZE
#define TARGET_ELF_PAGESTART(_v) ((_v) & \
      ~(unsigned long)(TARGET_ELF_EXEC_PAGESIZE - 1))
#define TARGET_ELF_PAGEOFFSET(_v) ((_v) & (TARGET_ELF_EXEC_PAGESIZE - 1))

#define DLINFO_ITEMS 14

static abi_ulong target_create_elf_tables(abi_ulong p, int argc, int envc,

                              abi_ulong stringp,
                                  struct elfhdr *exec,
                                  abi_ulong load_addr,
                                  abi_ulong load_bias,
                                  abi_ulong interp_load_addr,
                                  struct image_info *info)
{
      abi_ulong features, sp;
      int size;
      const int n = sizeof(elf_addr_t);

      target_auxents_sz = 0;
      sp = p;
      /*
```

```
     * Force 16 byte _final_ alignment here for generality.
     */
    sp = sp & ~(abi_ulong)15;
    size = (DLINFO_ITEMS + 1) * 2;
    size += envc + argc + 2;
    size += 1;                    /* argc itself */
    size *= n;
    if (size & 15) {
        sp -= 16 - (size & 15);
    }

    /*
     * FreeBSD defines elf_addr_t as Elf32_Off / Elf64_Off
     */
#define NEW_AUX_ENT(id, val) do {               \
         sp -= n; put_user_ual(val, sp);     \
        sp -= n; put_user_ual(id, sp);      \
        target_auxents_sz += 2 * n;         \
      } while (0)

    NEW_AUX_ENT(AT_NULL, 0);

    /* There must be exactly DLINFO_ITEMS entries here.  */
    NEW_AUX_ENT(AT_PHDR, (abi_ulong)(load_addr + exec->e_phoff));
    NEW_AUX_ENT(AT_PHENT, (abi_ulong)(sizeof(struct elf_phdr)));
    NEW_AUX_ENT(AT_PHNUM, (abi_ulong)(exec->e_phnum));
    NEW_AUX_ENT(AT_PAGESZ, (abi_ulong)(TARGET_PAGE_SIZE));
    NEW_AUX_ENT(AT_BASE, (abi_ulong)(interp_load_addr));
    NEW_AUX_ENT(AT_FLAGS, (abi_ulong)0);
    NEW_AUX_ENT(FREEBSD_AT_NCPUS, (abi_ulong)bsd_get_ncpu());
    NEW_AUX_ENT(AT_ENTRY, load_bias + exec->e_entry);
    features = ELF_HWCAP;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP, features);
#ifdef ELF_HWCAP2
    features = ELF_HWCAP2;
    NEW_AUX_ENT(FREEBSD_AT_HWCAP2, features);
#endif
    NEW_AUX_ENT(AT_UID, (abi_ulong)getuid());

   NEW_AUX_ENT(AT_EUID, (abi_ulong)geteuid());
    NEW_AUX_ENT(AT_GID, (abi_ulong)getgid());
    NEW_AUX_ENT(AT_EGID, (abi_ulong)getegid());
    target_auxents = sp; /* Note where the aux entries are in the target */
#ifdef ARCH_DLINFO
    /*
     * ARCH_DLINFO must come last so platform specific code can enforce
     * special alignment requirements on the AUXV if necessary (eg. PPC).
     */
```

```
	ARCH_DLINFO;
#endif
#undef NEW_AUX_ENT

	sp = loader_build_argptr(envc, argc, sp, stringp);
	return sp;
}

#endif /* _TARGET_OS_ELF_H_ */
if not have_bsd_user
  subdir_done()
endif

bsd_user_ss.add(files(
 'bsdload.c',
 'elfload.c',
 'main.c',
 'mmap.c',
 'signal.c',
 'strace.c',
 'syscall.c',
 'uaccess.c',
))

# Pull in the OS-specific build glue, if any
subdir(targetos)
/*
*  FreeBSD thread dependent code and definitions
*
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*/

#ifndef _TARGET_OS_THREAD_H_
#define _TARGET_OS_THREAD_H_
```

```
#include "target_arch_thread.h"

#endif /* !_TARGET_OS_THREAD_H_ */
/*
*  sys/user.h definitions
*
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*  along with this program; if not, see <http://www.gnu.org/licenses/>.
*/

#ifndef _TARGET_OS_USER_H_
#define _TARGET_OS_USER_H_

/*
* from sys/priority.h
*/
struct target_priority {
   uint8_t     pri_class;      /* Scheduling class. */
   uint8_t     pri_level;      /* Normal priority level. */
   uint8_t     pri_native;
     /* Priority before propogation. */
   uint8_t     pri_user;       /* User priority based on p_cpu and p_nice. */
};

/*
* sys/caprights.h
*/
#define TARGET_CAP_RIGHTS_VERSION  0

typedef struct target_cap_rights {
   uint64_t    cr_rights[TARGET_CAP_RIGHTS_VERSION + 2];
} target_cap_rights_t;

/*
* From sys/_socketaddr_storage.h
*
```

```
*/
#define TARGET_SS_MAXSIZE     128U
#define TARGET_SS_ALIGNSIZE   (sizeof(__int64_t))
#define TARGET_SS_PAD1SIZE    (TARGET_SS_ALIGNSIZE - sizeof(unsigned char) - \
      sizeof(uint8_t))
#define TARGET_SS_PAD2SIZE    (TARGET_SS_MAXSIZE - sizeof(unsigned char) - \
      sizeof(uint8_t) - TARGET_SS_PAD1SIZE - TARGET_SS_ALIGNSIZE)

struct target_sockaddr_storage {
  unsigned char   ss_len;         /* address length */
  uint8_t         ss_family;      /* address family */
  char            __ss_pad1[TARGET_SS_PAD1SIZE];
  __int64_t       __ss_align;     /* force desired struct alignment */
  char            __ss_pad2[TARGET_SS_PAD2SIZE];
};

/*
 * from sys/user.h
*/
#define TARGET_KI_NSPARE_INT        2
#define TARGET_KI_NSPARE_LONG       12
#define TARGET_KI_NSPARE_PTR        6

#define TARGET_WMESGLEN             8
#define TARGET_LOCKNAMELEN          8
#define TARGET_TDNAMLEN             16
#define TARGET_COMMLEN              19
#define TARGET_KI_EMULNAMELEN       16
#define TARGET_KI_NGROUPS           16
#define TARGET_LOGNAMELEN           17
#define TARGET_LOGINCLASSLEN        17

#define TARGET_KF_TYPE_NONE         0
#define TARGET_KF_TYPE_VNODE        1
#define TARGET_KF_TYPE_SOCKET       2
#define TARGET_KF_TYPE_PIPE         3
#define TARGET_KF_TYPE_FIFO         4
#define TARGET_KF_TYPE_KQUEUE       5
#define TARGET_KF_TYPE_CRYPTO       6
#define TARGET_KF_TYPE_MQUEUE       7
#define TARGET_KF_TYPE_SHM          8
#define TARGET_KF_TYPE_SEM          9
#define TARGET_KF_TYPE_PTS          10
#define TARGET_KF_TYPE_PROCDESC     11
#define TARGET_KF_TYPE_DEV          12
#define TARGET_KF_TYPE_UNKNOWN      255

struct
```

```
target_kinfo_proc {
  int32_t     ki_structsize;      /* size of this structure */
  int32_t     ki_layout;          /* reserved: layout identifier */
  abi_ulong   ki_args;            /* address of command arguments */
  abi_ulong   ki_paddr;           /* address of proc */
  abi_ulong   ki_addr;            /* kernel virtual addr of u-area */
  abi_ulong   ki_tracep;          /* pointer to trace file */
  abi_ulong   ki_textvp;          /* pointer to executable file */
  abi_ulong   ki_fd;              /* pointer to open file info */
  abi_ulong   ki_vmspace;         /* pointer to kernel vmspace struct */
  abi_ulong   ki_wchan;           /* sleep address */
  int32_t     ki_pid;             /* Process identifier */
  int32_t     ki_ppid;            /* parent process id */
  int32_t     ki_pgid;            /* process group id */
  int32_t     ki_tpgid;           /* tty process group id */
  int32_t     ki_sid;             /* Process session ID
*/
  int32_t     ki_tsid;            /* Terminal session ID */
  int16_t     ki_jobc;            /* job control counter */
  int16_t     ki_spare_short1;    /* unused (just here for alignment) */
  int32_t     ki_tdev__freebsd11; /* controlling tty dev */
  target_sigset_t ki_siglist;     /* Signals arrived but not delivered */
  target_sigset_t ki_sigmask;     /* Current signal mask */
  target_sigset_t ki_sigignore;   /* Signals being ignored */
  target_sigset_t ki_sigcatch;    /* Signals being caught by user */

  int32_t     ki_uid;             /* effective user id */
  int32_t     ki_ruid;            /* Real user id */
  int32_t     ki_svuid;           /* Saved effective user id */
  int32_t     ki_rgid;            /* Real group id */
  int32_t     ki_svgid;           /* Saved effective group id */
  int16_t     ki_ngroups;         /* number of groups */
  int16_t     ki_spare_short2;    /* unused (just here for alignment) */
  int32_t     ki_groups[TARGET_KI_NGROUPS];
 /* groups */

  abi_long    ki_size;            /* virtual size */

  abi_long    ki_rssize;          /* current resident set size in pages */
  abi_long    ki_swrss;           /* resident set size before last swap */
  abi_long    ki_tsize;           /* text size (pages) XXX */
  abi_long    ki_dsize;           /* data size (pages) XXX */
  abi_long    ki_ssize;           /* stack size (pages) */

  uint16_t    ki_xstat;           /* Exit status for wait & stop signal */
  uint16_t    ki_acflag;          /* Accounting flags */

  uint32_t    ki_pctcpu;          /* %cpu for process during ki_swtime */
```

```
  uint32_t    ki_estcpu;          /* Time averaged value of ki_cpticks */
  uint32_t    ki_slptime;         /* Time since last blocked */
  uint32_t    ki_swtime;          /* Time swapped in or out */
  uint32_t    ki_cow;             /* number of copy-on-write faults */
  uint64_t    ki_runtime;         /* Real time in microsec */


struct  target_freebsd_timeval ki_start;  /* starting time */
  struct  target_freebsd_timeval ki_childtime; /* time used by process children */

  abi_long    ki_flag;            /* P_* flags */
  abi_long    ki_kiflag;          /* KI_* flags (below) */
  int32_t     ki_traceflag;       /* Kernel trace points */
  char        ki_stat;            /* S* process status */
  int8_t      ki_nice;            /* Process "nice" value */
  char        ki_lock;            /* Process lock (prevent swap) count */
  char        ki_rqindex;         /* Run queue index */
  u_char      ki_oncpu_old;       /* Which cpu we are on (legacy) */
  u_char      ki_lastcpu_old;     /* Last cpu we were on (legacy) */
  char        ki_tdname[TARGET_TDNAMLEN + 1];  /* thread name */
  char        ki_wmesg[TARGET_WMESGLEN + 1];   /* wchan message */
  char        ki_login[TARGET_LOGNAMELEN + 1]; /* setlogin name */
  char        ki_lockname[TARGET_LOCKNAMELEN + 1]; /* lock name */

char        ki_comm[TARGET_COMMLEN + 1];     /* command name */
  char        ki_emul[TARGET_KI_EMULNAMELEN + 1];  /* emulation name */
  char        ki_loginclass[TARGET_LOGINCLASSLEN + 1]; /* login class */

  char        ki_sparestrings[50];    /* spare string space */
  int32_t     ki_spareints[TARGET_KI_NSPARE_INT]; /* spare room for growth */
  uint64_t ki_tdev;  /* controlling tty dev */
  int32_t     ki_oncpu;           /* Which cpu we are on */
  int32_t     ki_lastcpu;         /* Last cpu we were on */
  int32_t     ki_tracer;          /* Pid of tracing process */
  int32_t     ki_flag2;           /* P2_* flags */
  int32_t     ki_fibnum;          /* Default FIB number */
  uint32_t    ki_cr_flags;        /* Credential flags */
  int32_t     ki_jid;             /* Process jail ID */
  int32_t     ki_numthreads;      /* XXXKSE number of threads in total */

  int32_t     ki_tid;             /* XXXKSE thread id */

  struct  target_priority ki_pri;
/* process priority */
  struct  target_freebsd_rusage ki_rusage;  /* process rusage statistics */
      /* XXX - most fields in ki_rusage_ch are not (yet) filled in */
  struct  target_freebsd_rusage ki_rusage_ch; /* rusage of children processes */
```

```
  abi_ulong   ki_pcb;            /* kernel virtual addr of pcb */
  abi_ulong   ki_kstack;          /* kernel virtual addr of stack */
  abi_ulong   ki_udata;           /* User convenience pointer */
  abi_ulong   ki_tdaddr;          /* address of thread */

  abi_ulong   ki_spareptrs[TARGET_KI_NSPARE_PTR];  /* spare room for growth */
  abi_long    ki_sparelongs[TARGET_KI_NSPARE_LONG];/* spare room for growth */
  abi_long    ki_sflag;          /* PS_* flags */
  abi_long    ki_tdflags;         /* XXXKSE kthread flag */
};

struct target_kinfo_file {
  int32_t  kf_structsize;  /* Variable size of record. */
  int32_t  kf_type;  /* Descriptor type. */
  int32_t  kf_fd;   /* Array index. */
  int32_t  kf_ref_count;
 /* Reference count. */
  int32_t  kf_flags;  /* Flags. */
  int32_t  kf_pad0;  /* Round to 64 bit alignment. */
  int64_t  kf_offset;  /* Seek location. */
  union {
     struct {
        uint32_t kf_spareint;
        /* Socket domain. */
        int  kf_sock_domain0;
        /* Socket type. */
        int  kf_sock_type0;
        /* Socket protocol. */
        int  kf_sock_protocol0;
        /* Socket address. */
        struct sockaddr_storage kf_sa_local;
        /* Peer address. */
        struct sockaddr_storage kf_sa_peer;
        /* Address of so_pcb. */
        uint64_t kf_sock_pcb;
        /* Address of inp_ppcb. */
        uint64_t kf_sock_inpcb;
        /* Address of unp_conn. */
        uint64_t kf_sock_unpconn;
        /* Send buffer state. */
        uint16_t kf_sock_snd_sb_state;
        /* Receive buffer state. */
        uint16_t kf_sock_rcv_sb_state;
        /*
 Round to 64 bit alignment. */
        uint32_t kf_sock_pad0;
```

```
} kf_sock;
struct {
    /* Vnode type. */
    int  kf_file_type;
    /* Space for future use */
    int  kf_spareint[3];
    uint64_t kf_spareint64[30];
    /* Vnode filesystem id. */
    uint64_t kf_file_fsid;
    /* File device. */
    uint64_t kf_file_rdev;
    /* Global file id. */
    uint64_t kf_file_fileid;
    /* File size. */
    uint64_t kf_file_size;
    /* Vnode filesystem id, FreeBSD 11 compat. */
    uint32_t kf_file_fsid_freebsd11;
    /* File device, FreeBSD 11 compat. */
    uint32_t kf_file_rdev_freebsd11;
    /* File mode. */
    uint16_t kf_file_mode;
    /* Round to 64 bit alignment. */
    uint16_t kf_file_pad0;
    uint32_t kf_file_pad1;
} kf_file;
struct {
    uint32_t kf_spareint[4];
     uint64_t kf_spareint64[32];
    uint32_t kf_sem_value;
    uint16_t kf_sem_mode;
} kf_sem;
struct {
    uint32_t kf_spareint[4];
    uint64_t kf_spareint64[32];
    uint64_t kf_pipe_addr;
    uint64_t kf_pipe_peer;
    uint32_t kf_pipe_buffer_cnt;
    /* Round to 64 bit alignment. */
    uint32_t kf_pipe_pad0[3];
} kf_pipe;
struct {
    uint32_t kf_spareint[4];
    uint64_t kf_spareint64[32];
    uint32_t kf_pts_dev_freebsd11;
    uint32_t kf_pts_pad0;
    uint64_t kf_pts_dev;
    /* Round to 64 bit alignment. */
    uint32_t kf_pts_pad1[4];
```

```
        } kf_pts;
        struct {
            uint32_t kf_spareint[4];
            uint64_t kf_spareint64[32];
            int32_t  kf_pid;
        } kf_proc;
    } kf_un;
    uint16_t kf_status;  /* Status flags. */
    uint16_t kf_pad1;  /* Round to 32 bit alignment. */
    int32_t
   _kf_ispare0;  /* Space for more stuff. */
    target_cap_rights_t kf_cap_rights; /* Capability rights. */
    uint64_t _kf_cap_spare; /* Space for future cap_rights_t. */
    /* Truncated before copyout in sysctl */
    char  kf_path[PATH_MAX]; /* Path to file, if any. */
};

struct target_kinfo_vmentry {
    int32_t  kve_structsize;  /* Variable size of record. */
    int32_t  kve_type;   /* Type of map entry. */
    uint64_t kve_start;   /* Starting address. */
    uint64_t kve_end;   /* Finishing address. */
    uint64_t kve_offset;   /* Mapping offset in object */
    uint64_t kve_vn_fileid;   /* inode number if vnode */
    uint32_t kve_vn_fsid_freebsd11;  /* dev_t of vnode location */
    int32_t  kve_flags;   /* Flags on map entry. */
    int32_t  kve_resident;   /* Number of resident pages. */
    int32_t  kve_private_resident;  /* Number of private pages. */
    int32_t  kve_protection;  /* Protection bitmask. */
    int32_t  kve_ref_count;   /* VM obj ref count. */

 int32_t  kve_shadow_count;  /* VM obj shadow count. */
    int32_t  kve_vn_type;   /* Vnode type. */
    uint64_t kve_vn_size;   /* File size. */
    uint32_t kve_vn_rdev_freebsd11;  /* Device id if device. */
    uint16_t kve_vn_mode;   /* File mode. */
    uint16_t kve_status;   /* Status flags. */
#if (__FreeBSD_version >= 1300501 && __FreeBSD_version < 1400000) ||    \
    __FreeBSD_version >= 1400009
    union {
        uint64_t _kve_vn_fsid;  /* dev_t of vnode location */
        uint64_t _kve_obj;  /* handle of anon obj */
    } kve_type_spec;
#define kve_vn_fsid kve_type_spec._kve_vn_fsid
#define kve_obj  kve_type_spec._kve_obj
#else
    uint64_t kve_vn_fsid;   /* dev_t of vnode location */
#endif
```

```
   uint64_t kve_vn_rdev;   /* Device id if device. */
   int  _kve_ispare[8];  /* Space for more stuff. */
   /* Truncated before copyout in sysctl */
   char  kve_path[PATH_MAX];  /* Path to VM obj, if any. */
};

#endif /* ! _TARGET_OS_USER_H_ */
```

TARGET_ARCH=i386

TARGET_XML_FILES= gdb-xml/i386-32bit.xml

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```
#ifndef _TARGET_OS_SIGINFO_H_
#define _TARGET_OS_SIGINFO_H_

#define TARGET_NSIG     32   /* counting 0; could be 33 (mask is 1-32) */
#define TARGET_NSIG_BPW     (sizeof(uint32_t) * 8)
#define TARGET_NSIG_WORDS   (TARGET_NSIG / TARGET_NSIG_BPW)
```

```
/* this struct defines a stack used during syscall handling */
typedef struct target_sigaltstack {
   abi_long    ss_sp;
   abi_ulong   ss_size;
   abi_long    ss_flags;
} target_stack_t;

typedef struct {
   uint32_t __bits[TARGET_NSIG_WORDS];
} target_sigset_t

struct target_sigaction {
   abi_ulong   _sa_handler;
   int32_t     sa_flags;
   target_sigset_t sa_mask;
};

/* Compare to sys/siginfo.h */
typedef union target_sigval {
   int         sival_int;
   abi_ulong   sival_ptr;
} target_sigval_t;

struct target_ksiginfo {
   int32_t     _signo;
   int32_t     _code;
   int32_t     _errno;
#if TARGET_ABI_BITS == 64
   int32_t     _pad;
#endif
   union {
      struct {
         int32_t             _pid;
         int32_t
           _uid;
         target_sigval_t    _value;
      } _rt;

      struct {
         int32_t             _pid;
         int32_t             _uid;
         int32_t             _struct;
         /* clock_t          _utime; */
         /* clock_t          _stime; */
      } _child;

      struct {
```

```
        abi_ulong           _addr;
        int32_t             _trap;
      } _fault;

      struct {
        long                _band;
        int                 _fd;
      } _poll;
  } _reason;
};

typedef union target_siginfo {
  int8_t     si_pad[128];
  struct     target_ksiginfo  _info;
} target_siginfo_t;

#define target_si_signo     _info._signo
#define target_si_code      _info._code
#define target_si_errno     _info._errno
#define target_si_addr      _info._reason._fault._addr

#define TARGET_SEGV_MAPERR  1
#define TARGET_SEGV_ACCERR  2

#define TARGET_TRAP_BRKPT   1
#define TARGET_TRAP_TRACE   2


#endif /* ! _TARGET_OS_SIGINFO_H_
 */
```

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John R. Hauser
2018 January 20

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#ifndef _HOST_OS_H_
#define _HOST_OS_H_

#define HOST_DEFAULT_BSD_TYPE target_openbsd

#endif /*!_HOST_OS_H_ */
/*
*  mips sysarch() system call emulation
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#ifndef BSD_USER_ARCH_SYSARCH_H_
#define BSD_USER_ARCH_SYSARCH_H_

#include "target_syscall.h"
#include "target_arch.h"

static inline abi_long do_freebsd_arch_sysarch(CPUMIPSState *env, int op,
      abi_ulong parms)
{
  int ret = 0;

  switch (op)
 {
  case TARGET_MIPS_SET_TLS:
      target_cpu_set_tls(env, parms);
      break;

  case TARGET_MIPS_GET_TLS:
      if (put_user(target_cpu_get_tls(env), parms, abi_ulong)) {
          ret = -TARGET_EFAULT;
      }
      break;

  default:
      ret = -TARGET_EINVAL;
      break;
  }

  return ret;
}

static inline void do_freebsd_arch_print_sysarch(
      const struct syscallname *name, abi_long arg1, abi_long arg2,
      abi_long arg3, abi_long arg4, abi_long arg5, abi_long arg6)
{

  switch (arg1) {
  case TARGET_MIPS_SET_TLS:
      gemu_log("%s(SET_TLS, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
      break;

  case TARGET_MIPS_GET_TLS:
      gemu_log("%s(GET_TLS, 0x" TARGET_ABI_FMT_lx ")", name->name, arg2);
      break;
```

```
  default:
      gemu_log("UNKNOWN OP: %d, " TARGET_ABI_FMT_lx ")", (int)arg1, arg2);
  }
}

#endif /*!BSD_USER_ARCH_SYSARCH_H_ */
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*  OpenBSD thread dependent code and definitions
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*/

#ifndef _TARGET_OS_THREAD_H_
#define _TARGET_OS_THREAD_H_

#include "target_arch_thread.h"

#endif /* !_TARGET_OS_THREAD_H_ */
```

1.5697 golang 1.24.8

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file (certdata.txt). This file can be found in the mozilla source tree:
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
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3.1.2	3.1	2010	PSF	yes

3.2	3.1	2010	PSF	yes

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2.1.1	2.1+2.0.1	2001	PSF	yes
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application

program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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- [Pedro Aaron](https://github.com/paaaron)
- [Robin Bowes](https://github.com/yo61)
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procfs provides functions to retrieve system, kernel and process
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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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go-runhcs is a fork of go-runc

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.5713 charset-normalizer 3.4.4

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1.5714 dogpile-cache 1.5.0

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1.5716 libssl-dev 3.0.2-0ubuntu1.20

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1.5717 libftdi1 1.5-6build5

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d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based

on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or

linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany

the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
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executable containing the modified Library. (It is understood
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b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
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properly with a modified version of the library, if
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interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally
distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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b) Use a suitable shared library mechanism for linking with the
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```
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}}

<div
 ...attributes
 class="consul-intention-permission-header-form"
>
 <FormGroup
   @name={{name}}
 as |group|>

   {{yield (hash
     submit=(action 'submit' changeset)
     reset=(action 'reset' changeset)

     isDirty=(and changeset.isValid changeset.isDirty)
     changeset=changeset
   )}}

   <fieldset>
     <div>
       <group.Element
         @name="HeaderType"
         @type="select"
       as |el|>
         <el.Label>Header type</el.Label>
         <PowerSelect
           @options={{headerTypes}}
           @selected={{headerType}}
           @onChange={{action 'change' 'HeaderType' changeset}} as |Type|>
             {{get headerLabels Type}}
         </PowerSelect>
       </group.Element>


       <group.Element
         @name="Name"
         @error={{changeset-get changeset 'error.Name'}}
       as |el|>
         <el.Label>Header name</el.Label>
         <el.Text

          @value={{changeset-get changeset 'Name'}}
           oninput={{action 'change' 'Name' changeset}}
         />
```

```
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Name.validation'}}
          </el.Error>
        </State>
      </group.Element>

 {{#if shouldShowValueField}}
      <group.Element
        @name="Value"
        @error={{changeset-get changeset 'error.Value'}}
      as |el|>
        <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
        <el.Text
          @value={{changeset-get changeset 'Value'}}
          oninput={{action 'change' 'Value' changeset}}
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>
            {{changeset-get changeset 'error.Value.validation'}}
          </el.Error>
        </State>
      </group.Element>
 {{/if}}

 {{#if shouldShowIgnoreCaseField}}
      <group.Element

        @name="IgnoreCase"
        @error={{changeset-get changeset 'error.IgnoreCase'}}
      as |el|>
        <el.Label>Ignore Case</el.Label>
        <el.Checkbox
          checked={{if IgnoreCase 'checked'}}
          onchange={{action 'change' 'IgnoreCase' changeset}}
        />
      </group.Element>
 {{/if}}

    </div>
  </fieldset>
 </FormGroup>
</div>
---
layout: api
page_title: License - Operator - HTTP API
description: |-
 The /operator/license endpoint allows for retrieving the Consul
```

Enterprise License.

License - Operator HTTP API

<EnterpriseAlert />

The licensing functionality described here is available only in
[Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

Getting the Consul License

This endpoint gets information about the current license.

Method	Path	Produces
`GET`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching), and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`all`	`none`	`none`

The corresponding CLI command is [`consul license get`](/consul/commands/license#get).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be retrieved.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
```

```
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product": "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",

     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
 "Warnings": []
}
```


Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

Method	Path	Produces
`PUT`	`/operator/license`	`application/json`

The table below shows this endpoint's support for [blocking queries](/consul/api-docs/features/blocking), [consistency modes](/consul/api-docs/features/consistency), [agent caching](/consul/api-docs/features/caching), and [required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license put`](/consul/commands/license#put).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Payload

The payload is the raw license blob.

Sample Request

```shell-session
$ curl \
   --request PUT \
   --data @consul.license \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
   "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
   "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
   "installation_id": "*",
   "issue_time": "2018-05-21T20:03:35.911567355Z",
   "start_time": "2018-05-21T04:00:00Z",
   "expiration_time": "2019-05-22T03:59:59.999Z",
   "product":
 "consul",
   "flags": {
     "package": "premium"
   },
   "features": [
     "Automated Backups",
     "Automated Upgrades",
     "Enhanced Read Scalability",
     "Network Segments",
     "Redundancy Zone",
     "Advanced Network Federation"
   ],
   "temporary": false
 },
```

```
 "Warnings": []
}
```

Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with
the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

Method	Path	Produces
`DELETE`	`/operator/license`	`application/json`

The table below shows this endpoint's support for
[blocking queries](/consul/api-docs/features/blocking),
[consistency modes](/consul/api-docs/features/consistency),
[agent caching](/consul/api-docs/features/caching),
 and
[required ACLs](/consul/api-docs/api-structure#authentication).

Blocking Queries	Consistency Modes	Agent Caching	ACL Required
`NO`	`none`	`none`	`operator:write`

The corresponding CLI command is [`consul license reset`](/consul/commands/license#reset).

Query Parameters

- `dc` `(string: "")` - Specifies the datacenter whose license should be updated.
 This will default to the datacenter of the agent serving the HTTP request.

Sample Request

```shell-session
$ curl \
   --request DELETE \
   http://127.0.0.1:8500/v1/operator/license
```

Sample Response

```json
{
 "Valid": true,
 "License": {
```

"license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
"customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
"installation_id": "*",
"issue_time": "2018-05-21T20:03:35.911567355Z",
"start_time": "2018-05-21T04:00:00Z",
"expiration_time": "2019-05-22T03:59:59.999Z",
"product": "consul",
"flags": {
"package": "premium"
},
"features": [
"Automated Backups",
"Automated Upgrades",
"Enhanced Read Scalability",
"Network Segments",
"Redundancy Zone",
"Advanced Network Federation"
],
"temporary": false
},
"Warnings": []
}
```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-form {
 h2 {
  padding-top: 1.4em;
  margin-top: 0.2em;
  margin-bottom: 0.6em;
 }
 .consul-intention-permission-header-form {
  margin-top: 10px;
 }
 fieldset:nth-child(2) > div,
 .consul-intention-permission-header-form fieldset > div {
  display: grid;
  grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
```

```
  grid-gap: 12px;
 }
 fieldset:nth-child(2) > div label:last-child {
  grid-column: span 2;
 }
 .ember-basic-dropdown-trigger {
  padding: 5px;
 }
 .checkbox-group {
  flex-direction: column;
 }
}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-list > ul > li {
 @extend %list-row-200;
}
.consul-intention-permission-list:not(.readonly) > ul > li {
 @extend %with-composite-row-intent;
}
.consul-intention-permission-list strong {
 @extend %pill-500;
}
.consul-intention-permission-list .intent-allow {
 @extend %pill-allow;
}
.consul-intention-permission-list .intent-deny {
 @extend %pill-deny;
}
```

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---
layout: docs
page_title: Enterprise License FAQ
description: >-
Review frequently asked questions (FAQs) about Consul Enterprise licenses to learn more about how licenses work, what happens when they expire, and how to get a trial license.

Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0.
Consul Enterprise automatically loads Consul licenses when the server agent starts.

Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different.

HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from

either an environment variable or file.
If the license is missing, invalid, or expired, the server will immediately exit.
This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol.
This will no longer work since each server must be able to find a valid license during the startup process.

Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release.
During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token.
The upgrade process varies if ACLs are enabled or disabled in the cluster.
Refer to the instructions on [upgrading to 1.10.x](/consul/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs).

Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise 1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](/consul/docs/enterprise/upgrades)

- [Consul License Documentation](/consul/docs/enterprise/license/overview)

- [License configuration values documentation](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs)

Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise.
This impacts customers that have an enterprise binary (trial or non-trial licenses) downloaded from https://releases.hashicorp.com.
The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0,

a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up.
The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

Q: What is the impact on trial licenses due to this change? ((#q-what-is-the-impact-on-evaluation-licenses-due-to-this-change))

Consul Enterprise 1.10.0+ server agents require a valid license to start.
The license can be provided on disk (auto-loaded) or as an environment variable.
There is no longer a 6-hour trial period in which Consul Enterprise server agents
can operate without a license.

Q: Is there a grace period when licenses expire?

YesConsul will continue normal operation and can be restarted after license *expiration* as defined in [`expiration_time`](/consul/api-docs/operator/license#getting-the-consul-license).
As
license expiration is approached or passed, Consul will issue warnings in the system logs.

Consul will only cease operation after license *termination*, which occurs 10 years
after license expiration and is defined in
[`termination_time`](/consul/api-docs/operator/license#getting-the-consul-license).

~> **Starting with Consul 1.14, and patch releases 1.13.3 and 1.12.6, Consul will support non-terminating licenses**:
Please contact your support representative for more details on non-terminating licenses.
An expired license will not allow Consul versions released after the expiration date to run.
It will not be possible to upgrade to a new version of Consul released after license expiration.

Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients.
Please review the [upgrade requirements](#q-what-are-the-upgrade-requirements) documentation.

Q: Does this affect snapshot agents?

Same behavior as Consul clients.
See answer for [Does this affect client agents?](#q-does-this-affect-client-agents)

Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.

- An ACL token is provided to the client agent.
- The client agents configuration contains `retry_join` addresses.
- The retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `retry_join` addresses, the retry join addresses are addresses of the Consul servers.

Q: Where can users get a trial license for Consul Enterprise?

Contact your [HashiCorp Support contact](https://support.hashicorp.com/) for a development license.

~> **Trial
 install will cease operation 24 hours after 30-day license expiration**:
  Trial licenses are not meant to be used in production.
  This is unlike non-trial licenses which provide a 10 year grace period as described in
  the answer for [Q: Is there a grace period when licenses expire?](#q-is-there-a-grace-period-when-licenses-expire).

Q: How can I renew a license?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: I'm an existing enterprise customer but don't have my license, how can I get it?

Contact your organization's [HashiCorp account team](https://support.hashicorp.com/hc/en-us) for information on how to renew your organization's enterprise license.

Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

Q: Will this
 impact HCP Consul Dedicated?

This will not impact HCP Consul Dedicated.

Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for trial licenses (non-trial licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise **will check for the presence of a valid license every time a node restarts**.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).

Q: What are the scenarios that a customer must plan for because of these changes?

New
 Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy. This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

VM

1. Run [`consul license get -signed`](/consul/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license
 key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

NOTE: If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, refer to [how to obtain a copy of your license](/consul/docs/enterprise/license/faq#q-i-m-an-existing-enterprise-customer-but-don-t-have-my-license-how-can-i-get-it).
Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/consul/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

!>
 Warning: If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/consul/docs/k8s/deployment-configurations/consul-enterprise) for more details.

Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/consul/docs/upgrading).

Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's [customer success manager](https://support.hashicorp.com/hc/en-us) (CSM) for information on how to get your organization's enterprise license.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.
  Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.
1. Proceed with the `helm` [upgrade instructions](/consul/docs/k8s/upgrade)

Q: Will Consul downgrades/rollbacks work?

When downgrading
 to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

~> Verify that you meet the [upgrade requirements](/consul/docs/enterprise/license/faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.
Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).
The `consul license put` operation will fail due to being removed from 1.10.0.
This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node
 not running 1.10.0+.
This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups

recoveries are in place.

Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.
You will need to add the following configuration.

```
server:
 enterpriseLicense:
   enableLicenseAutoload: false
```

```
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.consul-intention-permission-header-list {
 max-height: 200px;
 overflow: auto;
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-header-list"
 @items={{items}}
 @scroll="native"
 @cellHeight={{42}}
as |item|>
 <BlockSlot @name="details">
   <dl>
     <dt>
       <Tooltip>
         Header
       </Tooltip>
     </dt>
     <dd>
       {{item.Name}} {{route-match item}}
     </dd>
   </dl>
 </BlockSlot>
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
```

```
    <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
      <BlockSlot @name="label">
        Delete
      </BlockSlot>
      <BlockSlot @name="confirmation" as |Confirmation|>
        <Confirmation class="warning">
          <BlockSlot @name="header">
            Confirm delete
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you want to delete this header?

  </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
</ListCollection>
{{/if}}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "exact": "/v1/secret"
                     }
                   }
                 },
                 {
                   "andRules": {
                     "rules": [
                       {
                         "metadata": {
```

```
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_auth0"
              },
              {
                "key": "iss"
              }
             ],
            "value": {
              "stringMatch": {
                "exact": "mytest.auth0-issuer"
              }
            }
          }
        },
        {
          "metadata": {
            "filter": "envoy.filters.http.jwt_authn",
            "path": [
              {
                "key": "jwt_payload_auth0"
              },
              {
                "key": "perms"
              },
              {
                "key": "role"
              }
            ],
            "value": {
              "stringMatch": {
                "exact": "admin"

  }
            }
          }
        }
      ]
    }
  }
  ]
 }
},
{
 "andRules": {
  "rules": [
   {
```

```
          "urlPath": {
            "path": {
              "exact": "/v1/admin"
            }
          }
        },
        {
          "notRule": {
            "urlPath": {
              "path": {
                "exact": "/v1/secret"
              }
            }
          }
        }
      ]
    }
  }
],
"principals": [
  {
    "andIds": {
      "ids": [
        {
          "authenticated": {
            "principalName": {

          "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        },
        {
          "andIds": {
            "ids": [
              {
                "metadata": {
                  "filter": "envoy.filters.http.jwt_authn",
                  "path": [
                    {
                      "key": "jwt_payload_okta"
                    },
                    {
                      "key": "iss"
                    }
                  ],
                  "value": {
```

```
                "stringMatch": {
                  "exact": "mytest.okta-issuer"
                }
              }
            }
          },

          {
            "metadata": {
              "filter": "envoy.filters.http.jwt_authn",
              "path": [
                {
                  "key": "jwt_payload_okta"
                },
                {
                  "key": "roles"
                }
              ],
              "value": {
                "stringMatch": {
                  "exact": "testing"
                }
              }
            }
          }
        ]
      }
    }
  ]
}
}
}
}
}
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
```

```
      {
        "urlPath": {
          "path": {
            "prefix": "/v1"
          }
        }
      },
      {
        "notRule": {
          "urlPath": {
            "path": {
              "exact": "/v1/secret"
            }
          }
        }
      }
    ]
  }
},
{
  "andRules": {
    "rules": [
      {
        "andRules": {
          "rules": [
            {

        "urlPath": {
              "path": {
                "safeRegex": {
                  "regex": "/v[123]"
                }
              }
            }
          },
          {
            "header": {
              "name": ":method",
              "stringMatch": {
                "safeRegex": {
                  "regex": "GET|HEAD|OPTIONS"
                }
              }
            }
          }
        ]
      }
    },
```

```
            {
              "notRule": {
                "urlPath": {
                  "path": {
                    "exact": "/v1/secret"
                  }
                }
              }
            },

        {
              "notRule": {
                "andRules": {
                  "rules": [
                    {
                      "urlPath": {
                        "path": {
                          "exact": "/v1/admin"
                        }
                      }
                    },
                    {
                      "header": {
                        "name": ":method",
                        "stringMatch": {
                          "safeRegex": {
                            "regex": "GET"
                          }
                        }
                      }
                    }
                  ]
                }
              }
            }
          ]
        }
      },
      {
        "andRules": {
          "rules": [
            {

"andRules": {
                "rules": [
                  {
                    "header": {
                      "name": "x-foo",
```

"presentMatch": true
}
},
{
"header": {
"name": "x-bar",
"stringMatch": {
"exact": "xyz"
}
}
},
{
"header": {
"name": "x-dib",
"stringMatch": {
"prefix": "gaz"
}
}
},
{
"header": {
"name": "x-gir",
"stringMatch": {

"suffix": "zim"
}
}
},
{
"header": {
"name": "x-zim",
"stringMatch": {
"safeRegex": {
"regex": "gi[rR]"
}
}
}
},
{
"header": {
"invertMatch": true,
"name": "z-foo",
"presentMatch": true
}
},
{
"header": {
"invertMatch": true,

```
          "name": "z-bar",
          "stringMatch": {
            "exact": "xyz"

  }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-dib",
          "stringMatch": {
            "prefix": "gaz"
          }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-gir",
          "stringMatch": {
            "suffix": "zim"
          }
        }
      },
      {
        "header": {
          "invertMatch": true,
          "name": "z-zim",
          "stringMatch": {
            "safeRegex": {

       "regex": "gi[rR]"
            }
          }
        }
      }
    ]
  }
},
{
  "notRule": {
    "urlPath": {
      "path": {
        "exact": "/v1/secret"
      }
    }
  }
```

```
            },
            {
              "notRule": {
                "header": {
                  "name": "x-baz",
                  "presentMatch": true
                }
              }
            }
          ]
        }
      }
    ],
    "principals": [
      {
        "authenticated": {
          "principalName": {
            "safeRegex": {
              "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
            }
          }
        }
      }
    ]
  }
}
}
}
{
 "name": "envoy.filters.network.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.network.rbac.v3.RBAC",
   "rules": {},
   "statPrefix": "connect_authz"
 }
}
{
 "Valid": true,
 "License": {
   "license_id": "${fake.random.uuid()}",
   "customer_id": "${fake.random.uuid()}",
   "installation_id": "*",
   "issue_time": "2021-01-13T15:25:19.052900132Z",
   "start_time": "2021-01-13T00:00:00Z",
   "expiration_time": "${env('CONSUL_LICENSE_EXPIRATION', '2022-05-02T23:59:59.999Z')}",
   "termination_time": "${env('CONSUL_LICENSE_TERMINATION', '2022-01-13T23:59:59.999Z')}",
   "product": "consul",
```

```
  "flags": {
    "modules": [
      "global-visibility-routing-scale",
      "governance-policy"
    ]
  },
  "modules": [
    "Global Visibility, Routing and Scale",
    "Governance and Policy"
  ],
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation",
    "Namespaces",
    "SSO",
    "Audit Logging",
    "Admin Partitions"
  ]
 },
 "Warnings": [
 ]
}
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
  "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",
  "providers": {
    "okta": {
      "issuer": "test-issuer",
      "payloadInMetadata": "jwt_payload_okta",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {
```

```
      "match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAny": {
          "requirements": [
            {
              "providerName": "okta"
            },
            {
              "allowMissingOrFailed": {}
            }
          ]
        }
      }
    }
  ]
 }
}
/**
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* SPDX-License-Identifier: BUSL-1.1
*/

@import './skin';
@import './layout';
.consul-intention-permission-header-list {
 > ul > li {
   @extend %list-row-200;
 }
}
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{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
```

```
"permissions": [
  {
    "andRules": {
      "rules": [
        {
          "andRules": {
            "rules": [
              {
                "urlPath": {
                  "path": {
                    "prefix": "/v1"
                  }
                }
              },
              {
                "header": {
                  "name": "x-foo",
                  "presentMatch": true
                }
              }
            ]
          }
        },
        {
          "notRule": {
            "andRules": {

            "rules": [
                {
                  "urlPath": {
                    "path": {
                      "exact": "/v1/secret"
                    }
                  }
                },
                {
                  "header": {
                    "name": "x-baz",
                    "presentMatch": true
                  }
                },
                {
                  "header": {
                    "name": "x-bar",
                    "presentMatch": true
                  }
                }
              ]
```

```
            }
           }
          },
          {
           "notRule": {
            "andRules": {
             "rules": [
              {

  "urlPath": {
                 "path": {
                  "exact": "/v1/admin"
                 }
               }
              },
              {
               "header": {
                "name": "x-baz",
                "presentMatch": true
               }
              },
              {
               "header": {
                "name": "x-bar",
                "presentMatch": true
               }
              }
             ]
            }
           }
          }
         ]
        }
       }
      ],
      "principals": [
       {
        "authenticated": {
         "principalName": {
          "safeRegex": {
           "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
          }
         }
        }
       }
      ]
     }
    }
```

```
   }
 }
}
```
License

```hbs preview-template
<figure>
 <figcaption>URI: <code>/:partition/:nspace/:dc/license</code></figcaption>
 <DataSource
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition='partition'
       nspace='ns'
       dc='dc-1'
     )
   }}
   @onchange={{action (mut data) value="data"}}
 />
 <pre><code>{{json-stringify data null 4}}</code></pre>
</figure>
```
---
page_title: Automated license utilization reporting
description: >-
 Learn what data HashiCorp collects to meter Enterprise license utilization. Enable or disable reporting. Review sample payloads and logs.

Automated license utilization reporting

This topic describes how to enable automated license utilization reporting in Consul Enterprise. This feature automatically sends license utilization data to HashiCorp so that you do not have to manually collect and report it. It also enables you to review your license usage with the monitoring solution you already use, such as Splunk and Datadog, as you optimize and manage your deployments.

Introduction

You can use automated license utilization report to understand how much additional networking infrastructure you can deploy under your current contract. This feature helps you protect against overutilization and budget for predicted consumption.

Automated reporting shares the minimum data required to validate license utilization
 as defined in our contracts. This data mostly consists of computed metrics, and it will never contain Personal Identifiable Information (PII) or other sensitive information. Automated reporting shares the data with HashiCorp using a secure unidirectional HTTPS API and makes an auditable record in the product logs each time it submits a report. This process is GDPR-compliant.

Requirements

Automated license utilization reporting does not support _air-gapped installations_, which are systems with no network interfaces.

The following versions of Consul Enterprise support automated license utilization reporting:

- Consul Enterprise v1.16.0 and newer.
- Patch releases of Consul Enterprise v1.15.4 and newer.
- Patch releases of Consul Enterprise v1.14.8 and newer.
- Patch releases of Consul Enterprise v1.13.9 and newer.

Download a supported release from the [Consul Versions](https://releases.hashicorp.com/consul/) page.

Enable automated reporting

Before you enable automated reporting,
 make sure that outbound network traffic is configured correctly and upgrade your enterprise product to a version that supports it. If your installation is air-gapped or network settings are not in place, automated reporting will not work.

To enable automated reporting, complete the following steps:

1. [Allow outbound HTTPS traffic on port 443](#allow-outbound-https-traffic)
1. [Check product logs](#check-product-logs)

Allow outbound HTTPS traffic on port 443

Make sure that your network allows HTTPS egress on port 443 from `https://reporting.hashicorp.services` by adding the following IP addresses to your allow-list:

- `100.20.70.12`
- `35.166.5.222`
- `23.95.85.111`
- `44.215.244.1`

Check product logs

Automatic license utilization reporting starts sending data within roughly 24 hours. Check the product logs for records that the data sent successfully.

<CodeBlockConfig hideClipboard>

```
[DEBUG] beginning snapshot export
[DEBUG] creating payload
[DEBUG] marshalling
```

payload to json
[DEBUG] generating authentication headers
[DEBUG] creating request
[DEBUG] sending request
[DEBUG] performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] recording audit record
[INFO] reporting: Report sent: auditRecord={"payload":{"payload_version":"1","license_id":"d2cdd857-4202-5a45-70a6-e4b531050c34","product":"consul","product_version":"1.16.0-dev+ent","export_timestamp":"2023-05-26T20:09:13.753921087Z","snapshots":[{"snapshot_version":1,"snapshot_id":"0001J724F90F4XWQDSAA76ZQWA","process_id":"01H1CTJPC1S8H7Q45MKTJ689ZW","timestamp":"2023-05-26T20:09:13.753513962Z","schema_version":"1.0.0","service":"consul","metrics":{"consul.billable.nodes":{"key":"consul.billable.nodes","kind":"counter","mode":"write","value":2},"consul.billable.service_instances":{"key":"consul.billable.service_instances","kind":"counter","mode":"write","value":2}}}],"metadata":{}}}
[DEBUG] completed recording audit record
[DEBUG] export finished successfully"
```

</CodeBlockConfig>

If
your installation is air-gapped or your network does not allow the correct egress, the logs show an error.

<CodeBlockConfig hideClipboard>

```
[DEBUG] reporting: beginning snapshot export
[DEBUG] reporting: creating payload
[DEBUG] reporting: marshalling payload to json
[DEBUG] reporting: generating authentication headers
[DEBUG] reporting: creating request
[DEBUG] reporting: sending request
[DEBUG] reporting: performing request: method=POST url=https://census.license.hashicorp.services
[DEBUG] reporting: error status code received: statusCode=403
```

</CodeBlockConfig>

In this case, reconfigure your network to allow egress and check the logs again in roughly 24 hours to confirm that automated reporting works correctly.

Opt out

If your installation is air-gapped or you want to manually collect and report on the same license utilization metrics, you can opt out of automated reporting.

Manually reporting these metrics can be time consuming. Opting
out of automated reporting does not mean that you also opt out from sending license utilization metrics. Customers who opt out of automated reporting are still required to manually collect and send license utilization metrics to
```

HashiCorp.

If you are considering opting out because you are worried about the data, we strongly recommend that you review the [example payloads](#example-payloads) before opting out. If you have concerns with any of the automatically reported data, raise these concerns with your account manager.

There are two methods for opting out of automated reporting:

- HCL configuration (recommended)
- Environment variable (requires restart)

We recommend opting out in your product's configuration file because it does not require a system restart. Add the following block to your `configuration.hcl` or `configuration.json` file.

```hcl
reporting {
 license {
  enabled = false
 }
}
```

When opting out using an environment variable, the system provides a startup message
 confirming that you have disabled automated reporting. Set the following environment variable to disable automated reporting:

<CodeBlockConfig>

```shell-session
$ export OPTOUT_LICENSE_REPORTING=true
```

</CodeBlockConfig>

After you set the environment variable, restart your system to complete the process for opting out.

```shell-session
$ consul reload
```

Check your product logs roughly 24 hours after opting out to make sure that the system is not trying to send reports. Keep in mind that if your configuration file and environment variable differ, the environment variable setting takes precedence.

Example payloads

HashiCorp collects the following utilization data as JSON payloads:

`exporter_version` - The version of the licensing exporter

<CodeBlockConfig hideClipboard>

```json
{
 "payload": {
   "payload_version": "1",
   "license_id": "d2cdd857-4202-5a45-70a6-e4b531050c34",
   "product": "consul",
   "product_version": "1.16.0-dev+ent",
   "export_timestamp":
 "2023-05-26T20:09:13.753921087Z",
   "snapshots": [
     {
       "snapshot_version": 1,
       "snapshot_id": "0001J724F90F4XWQDSAA76ZQWA",
       "process_id": "01H1CTJPC1S8H7Q45MKTJ689ZW",
       "timestamp": "2023-05-26T20:09:13.753513962Z",
       "schema_version": "1.0.0",
       "service": "consul",
       "metrics": {
         "consul.billable.nodes": {
           "key": "consul.billable.nodes",
           "kind": "counter",
           "mode": "write",
           "value": 2
         },
         "consul.billable.service_instances": {
           "key": "consul.billable.service_instances",
           "kind": "counter",
           "mode": "write",
           "value": 2
         }
       }
     }
   ],
   "metadata": {}
 }
}
```

</CodeBlockConfig>
---
layout: docs
page_title: Storing the Enterprise License in Vault
description: >-
 Configuring the Consul Helm chart to use an enterprise license stored in Vault.

Storing the Enterprise License in Vault

This topic describes how to configure the Consul Helm chart to use an enterprise license stored in Vault.
Overview
Complete the steps outlined in the [Data Integration](/consul/docs/k8s/deployment-configurations/vault/data-integration) section to use an enterprise license stored in Vault.

Complete the following steps once:
1. Store the secret in Vault.
1. Create a Vault policy that authorizes the desired level of access to the secret.

Repeat the following steps for each datacenter in the cluster:
1. Create Vault Kubernetes auth roles that link the policy to each Consul on Kubernetes service account that requires access.
1. Update the Consul on Kubernetes helm chart.

Prerequisites
Prior to setting up the data integration between Vault and Consul on Kubernetes,
you will need to have:
1. Read and completed the steps in the [Systems Integration](/consul/docs/k8s/deployment-configurations/vault/systems-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).
2. Read the [Data Integration Overview](/consul/docs/k8s/deployment-configurations/vault/data-integration) section of [Vault as a Secrets Backend](/consul/docs/k8s/deployment-configurations/vault).

Store the Secret in Vault

First, store the enterprise license in Vault:

```shell-session
$ vault kv put consul-kv/secret/enterpriselicense key="<enterprise license>"
```

Create Vault policy

Next, you will need to create a policy that allows read access to this secret.

The path to the secret referenced in the `path` resource is the same value that you will configure in the `global.enterpriseLicense.secretName` Helm configuration (refer to [Update Consul on Kubernetes Helm chart](#update-consul-on-kubernetes-helm-chart)).

<CodeBlockConfig
filename="license-policy.hcl">

```HCL
path "consul-kv/data/secret/enterpriselicense" {
```

```
 capabilities = ["read"]
}
```

</CodeBlockConfig>

Apply the Vault policy by issuing the `vault policy write` CLI command:

```shell-session
$ vault policy write license-policy license-policy.hcl
```

Create Vault Authorization Roles for Consul

Next, you will create Kubernetes auth roles for the Consul server and client:

```shell-session
$ vault write auth/kubernetes/role/consul-server \
   bound_service_account_names=<Consul server service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

```shell-session
$ vault write auth/kubernetes/role/consul-client \
   bound_service_account_names=<Consul client service account> \
   bound_service_account_namespaces=<Consul installation namespace> \
   policies=license-policy \
   ttl=1h
```

To find out the service account names of the Consul server and client,
you can
 run the following `helm template` commands with your Consul on Kubernetes values file:

- Generate Consul server service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/server-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

- Generate Consul client service account name
 ```shell-session
 $ helm template --release-name ${RELEASE_NAME} -s templates/client-serviceaccount.yaml hashicorp/consul -f values.yaml
 ```

Update Consul on Kubernetes Helm chart.

Now that you have configured Vault, you can configure the Consul Helm chart to
use the enterprise enterprise license in Vault:

<CodeBlockConfig filename="values.yaml">

```yaml
global:
 image: hashicorp/consul-enterprise:1.12.0-ent
 secretsBackend:
   vault:
     enabled: true
     consulServerRole: consul-server
     consulClientRole: consul-client
 enterpriseLicense:
   secretName: consul-kv/data/secret/enterpriselicense
   secretKey: key
```

</CodeBlockConfig>

Note
 that `global.enterpriseLicense.secretName` is the path of the secret in Vault.
This should be the same path as the one you included in your Vault policy.
`global.enterpriseLicense.secretKey` is the key inside the secret data. This should be the same
as the key you passed when creating the enterprise license secret in Vault.
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}}

<Hds::Alert @type='inline' @color={{or @type "neutral"}} class='mb-2 mt-2 consul-intention-notice-custom-resource' as |A|>
 <A.Title>Intention Custom Resource</A.Title>
 <A.Description>Some of your intentions are being managed through an Intention Custom Resource in your Kubernetes cluster. Those managed intentions will be view only in the UI. Any intentions created in the UI will work but will not be synced to the Custom Resource Definition (CRD) datastore.</A.Description>
 <A.Link::Standalone @href="{{env 'CONSUL_DOCS_URL'}}/k8s/crds"
                @text='Learn more about CRDs'
                @icon="docs-link"
                @iconPosition="trailing"
                @size="small" />
</Hds::Alert>
/**
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*/

```
.consul-intention-permission-form {
 h2 {
   border-top: 1px solid var(--token-color-foreground-action);
   @extend %display-400-semibold;
 }
 button.type-submit {
   @extend %frame-blue-300;
 }
 button.type-submit:hover:not(:disabled),
 button.type-submit:focus:not(:disabled) {
   @extend %frame-blue-500;
 }
 button.type-submit:disabled {
   @extend %frame-blue-200;
 }
}

.consul-intention-view {
 h2 {
   @extend %display-400-semibold;
 }
}
```

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obtain one at
http://mozilla.org/MPL/2.0/.

If it is not possible or desirable to put the notice in a particular file,
then You may include the notice in a location (such as a LICENSE file in a
relevant directory) where a recipient would be likely to look for such a
notice.

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Exhibit B - "Incompatible With Secondary Licenses" Notice

This Source Code Form is "Incompatible
With Secondary Licenses", as defined by
the Mozilla Public License, v. 2.0.

---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
Consul-Terraform-Sync Enterprise License

Consul-Terraform-Sync Enterprise License

<EnterpriseAlert>
Licenses are only required for Consul-Terraform-Sync (CTS) Enterprise
</EnterpriseAlert>

CTS Enterprise binaries require a [Consul Enterprise license](/consul/docs/enterprise/license/overview) to run. There is no CTS Enterprise specific license. As a result, CTS Enterprise's licensing is very similar to Consul Enterprise.

All CTS Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for CTS, you can sign-up for the [trial license for Consul Enterprise](/consul/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

Automatic License Retrieval

CTS automatically retrieves a license from Consul on startup and then attempts to retrieve a new license once a day. If the current license is reaching its expiration date, CTS attempts to retrieve a license with increased frequency, as defined by the [License Expiration Date Handling](/consul/docs/nia/enterprise/license#license-expiration-handling).

~> Enabling automatic license retrieval is recommended when using HCP Consul Dedicated, as HCP Consul Dedicated licenses expire more frequently than Consul Enterprise licenses. Without auto-retrieval enabled, you have to restart CTS every time you load a new license.

Setting the License Manually

If a license needs to be manually set, choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

  ```shell-session
  export CONSUL_LICENSE=<LICENSE_VALUE>
  ```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

  ```shell-session
  export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
  ```

1. To
 point to the file containing the license, in the configuration file, configure the
[`license`](/consul/docs/nia/configuration#license) path option.

  ```hcl
  license {
    path = "<PATH>/<TO>/<FILE>"
  }
  ```

1. To point to the file containing the license, in the configuration file, configure the
[`license_path`](/consul/docs/nia/configuration#license_path) option i. **Deprecated in CTS 0.6.0 and will be removed in a future release. Use [license block](/consul/docs/nia/configuration#license) instead.**

  ```hcl
  license_path = "<PATH>/<TO>/<FILE>"
  ```

~> **Note**: the [options to set the license and the order of
precedence](/consul/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.
Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Updating the License Manually
To update the license
 when it expires or is near the expiration date and automatic license retrieval is disabled:

1. Update the license environment variable or configuration with the new license value or path to the new license file

1. Stop and restart CTS Enterprise

Once CTS Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

License Expiration Handling

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. CTS Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, by default, CTS Enterprise will attempt to retrieve a new license. If auto-retrieval is disabled, CTS Enterprise will
provide notifications in the system logs:

Time period	Behavior - auto-retrieval enabled (default)	Behavior - auto-retrieval disabled
30 days before expiration	License retrieval attempt every 24-hours	Warning-level log every 24-hours
7 days before expiration	License retrieval attempt every 1 hour	Warning-level log every 1 hour
1 day before expiration	License retrieval attempt every 5 minutes	Warning-level log every 5 minutes
1 hour before expiration	License retrieval attempt every 1 minute	Warning-level log every 1 minute
At or after expiration (before termination)	License retrieval attempt every 1 minute	Error-level log every 1 minute
At or after termination	Error-level log and exit	Error-level log and exit

~> **Note**: Notification frequency and [grace period](/consul/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

```
/*!
* clipboard.js v2.0.11
* https://clipboardjs.com/
*
* Licensed MIT  Zeno Rocha
*/

/*!
* focus-trap 6.9.4
* @license MIT, https://github.com/focus-trap/focus-trap/blob/master/LICENSE
*/

/*! ******************************************************************************
Copyright (c) Microsoft Corporation.
```

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****
 */

/**
* @license
* Copyright 2017 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/

/**
* @license
* Copyright 2019 Google LLC
* SPDX-License-Identifier: BSD-3-Clause
*/
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

{{#if (gt items.length 0)}}
<ListCollection
 class="consul-intention-permission-list{{if (not onclick) ' readonly'}}"
 @scroll="native"
 @items={{items}}
 @partial={{5}}
as |item|>
 <BlockSlot @name="details">
   <div onclick={{action (optional onclick) item}}>
     <strong class={{concat 'intent-' item.Action}}>{{capitalize item.Action}}
{{#if (gt item.HTTP.Methods.length 0)}}
       <dl class="permission-methods">
         <dt>
           <Tooltip>
             Methods
           </Tooltip>
         </dt>
         <dd>
{{#each item.HTTP.Methods as |item|}}

```
          {{item}}
{{/each}}
        </dd>
      </dl>
{{/if}}
{{#if item.HTTP.Path}}
      <dl class="permission-path">
        <dt>
          <Tooltip>
            {{item.HTTP.PathType}}
          </Tooltip>
        </dt>
        <dd>
          {{item.HTTP.Path}}
        </dd>
      </dl>
{{/if}}
{{#each item.HTTP.Header
 as |item|}}
      <dl class="permission-header">
        <dt>
          <Tooltip>
            Header
          </Tooltip>
        </dt>
        <dd>
          {{item.Name}} {{route-match item}}
        </dd>
      </dl>
{{/each}}
  </div>
 </BlockSlot>
{{#if onclick}}
 <BlockSlot @name="actions" as |Actions|>
   <Actions as |Action|>
     <Action data-test-edit-action @onclick={{action (optional onclick) item}} @close={{true}}>
       <BlockSlot @name="label">
         Edit
       </BlockSlot>
     </Action>
     <Action data-test-delete-action @onclick={{action ondelete item}} class="dangerous">
       <BlockSlot @name="label">
         Delete
       </BlockSlot>
       <BlockSlot @name="confirmation" as |Confirmation|>
         <Confirmation class="warning">
           <BlockSlot @name="header">
             Confirm delete
```

```
          </BlockSlot>
          <BlockSlot @name="body">
            <p>
              Are you sure you
 want to delete this permission?
            </p>
          </BlockSlot>
          <BlockSlot @name="confirm" as |Confirm|>
            <Confirm>Delete</Confirm>
          </BlockSlot>
        </Confirmation>
      </BlockSlot>
    </Action>
  </Actions>
 </BlockSlot>
{{/if}}
</ListCollection>
{{/if}}
/**
* Copyright (c) HashiCorp, Inc.
* SPDX-License-Identifier: BUSL-1.1
*/

.agentless-node-notice .hds-alert__title {
 display: flex;
 justify-content: space-between;
}
---
layout: commands
page_title: 'Commands: License'
description: >
 The license command provides a datacenter-level view of the Consul
 Enterprise license.
---

# Consul License

Command: `consul license`

<EnterpriseAlert />

The `license` command provides a list of all datacenters that use the Consul Enterprise license applied to the current datacenter.

~> **Warning**: Consul 1.10.0 removed the ability to set and reset the license using the CLI.
See the [licensing documentation](/consul/docs/enterprise/license/overview) for more information about
Consul Enterprise license management.
```

If ACLs are enabled then a token with operator privileges may be required in
order to use this command. Requests are forwarded internally to the leader
if required, so this can be run from any Consul node in a cluster. See the
[ACL Guide](/consul/tutorials/security/access-control-setup-production) for more information.

```text
Usage: consul license <subcommand> [options] [args]

 This command has subcommands
 for managing the Consul Enterprise license
 Here are some simple examples, and more detailed examples are
 available in the subcommands or the documentation.

 Install a new license from a file:

    $ consul license put @consul.license

 Install a new license from stdin:

    $ consul license put -

 Install a new license from a string:

    $ consul license put "<license blob>"

 Retrieve the current license:

    $ consul license get

 Inspect a license:

    $ consul license inspect "<path to license file>"

 Reset the current license:

    $ consul license reset

 For more examples, ask for subcommand help or view the documentation.

Subcommands:
   get       Get the active license
   inspect   Inspect a signed license
   put       Puts a new license in the datacenter
   reset     Resets the license in the datacenter

```

inspect

This command inspects and validates a license. Just like a Consul agent it
can load the license from a file
 on disk or from the `CONSUL_LICENSE` and
`CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [<options>] [<license file>]`

Inspect a license contained in a file:

```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:

```
$ consul license inspect
```

This will look at the CONSUL_LICENSE environment variable first
and if not present then we will look for the file specified
by the CONSUL_LICENSE_PATH environment variable.

The output looks like this:

```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
    Global Visibility, Routing and Scale
     Governance and Policy
Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
    Namespaces
    SSO
```

Audit Logging
Admin Partitions

License is valid

```

## put

-> **Deprecated** The ability to manage the cluster's license via the CLI
was removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[PUT\] /v1/operator/license](/consul/api-docs/operator/license#updating-the-consul-license)

This command sets the Consul Enterprise license.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be
 from the corresponding HTTP endpoint.

| ACL Required |
| --- |
| `operator:write` |

Usage: `consul license put [options] LICENSE`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

get

Corresponding HTTP API Endpoint: [\[GET\] /v1/operator/license](/consul/api-docs/operator/license#getting-the-consul-license)

This command gets the Consul Enterprise license. If the leader hasn't been updated with the newer license, the followers
will display the outdated license in their GET output.

The table below
 shows this command's [required ACLs](/consul/api-docs/api-structure#authentication). Configuration of [blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching) are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`none`

Usage: `consul license get [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
    Automated Backups
    Automated Upgrades
    Enhanced Read Scalability
    Network Segments
    Redundancy Zone
    Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

reset

-> **Deprecated** The ability to manage the cluster's license via the CLI
was
 removed in Consul 1.10. While the CLI command still exists it will
always return an error. This command will be fully removed in a future release.

Corresponding HTTP API Endpoint: [\[DELETE\] /v1/operator/license](/consul/api-docs/operator/license#resetting-the-consul-license)

Resets license for the datacenter to the one builtin in Consul binary, if it is still valid.
If the builtin license is invalid, the current one stays active.

The table below shows this command's [required ACLs](/consul/api-docs/api-structure#authentication).
Configuration of
[blocking queries](/consul/api-docs/features/blocking) and [agent caching](/consul/api-docs/features/caching)
are not supported from commands, but may be from the corresponding HTTP endpoint.

ACL Required
`operator:write`

Usage: `consul license reset [options]`

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires
 At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
	Automated Backups
	Automated Upgrades
	Enhanced Read Scalability
	Network Segments
	Redundancy Zone
	Advanced Network Federation
```

API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
Mozilla Public License 2.0 (MPLv2.0)

```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "andRules": {
                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "prefix": "/v1"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-foo",
                           "presentMatch": true
                         }
                       }
                     ]
                   }
                 },
                 {
                   "notRule": {
                     "andRules": {

                     "rules": [
                       {
                         "urlPath": {
                           "path": {
                             "exact": "/v1/secret"
                           }
                         }
                       },
                       {
                         "header": {
                           "name": "x-baz",
```

```
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    },
    {
      "notRule": {
        "andRules": {
          "rules": [
            {

"urlPath": {
                "path": {
                  "exact": "/v1/admin"
                }
              }
            },
            {
              "header": {
                "name": "x-baz",
                "presentMatch": true
              }
            },
            {
              "header": {
                "name": "x-bar",
                "presentMatch": true
              }
            }
          ]
        }
      }
    }
  ]
}
},
{
  "andRules": {
    "rules": [
      {
```

```
                "andRules": {
                  "rules": [
                    {

  "urlPath": {
                      "path": {
                        "prefix": "/v2"
                      }
                    }
                  },
                  {
                    "header": {
                      "name": "x-foo",
                      "presentMatch": true
                    }
                  }
                ]
              }
            },
            {
              "notRule": {
                "andRules": {
                  "rules": [
                    {
                      "urlPath": {
                        "path": {
                          "exact": "/v2/secret"
                        }
                      }
                    },
                    {
                      "header": {
                        "name": "x-baz",
                        "presentMatch":
true
                      }
                    },
                    {
                      "header": {
                        "name": "x-bar",
                        "presentMatch": true
                      }
                    }
                  ]
                }
              }
            },
            {
```

```
                "notRule": {
                  "andRules": {
                    "rules": [
                      {
                        "urlPath": {
                          "path": {
                            "exact": "/v2/admin"
                          }
                        }
                      },
                      {
                        "header": {
                          "name": "x-baz",
                          "presentMatch": true
                        }
                      },

            {
                        "header": {
                          "name": "x-bar",
                          "presentMatch": true
                        }
                      }
                    ]
                  }
                }
              }
            ]
          }
        }
      ],
      "principals": [
        {
          "authenticated": {
            "principalName": {
              "safeRegex": {
                "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
              }
            }
          }
        }
      ]
    }
  }
 }
}
```

```
{
 "name": "envoy.filters.http.rbac",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.rbac.v3.RBAC",
   "rules": {
     "policies": {
       "consul-intentions-layer7-0": {
         "permissions": [
           {
             "andRules": {
               "rules": [
                 {
                   "urlPath": {
                     "path": {
                       "prefix": "some-path"
                     }
                   }
                 },
                 {
                   "andRules": {
                     "rules": [
                       {
                         "metadata": {
                           "filter": "envoy.filters.http.jwt_authn",
                           "path": [
                             {
                               "key": "jwt_payload_okta"
                             },
                             {
                               "key": "iss"
                             }

                           ],
                           "value": {
                             "stringMatch": {
                               "exact": "mytest.okta-issuer"
                             }
                           }
                         }
                       },
                       {
                         "metadata": {
                           "filter": "envoy.filters.http.jwt_authn",
                           "path": [
                             {
                               "key": "jwt_payload_okta"
                             },
                             {
```

```
                    "key": "roles"
                  }
                ],
                "value": {
                  "stringMatch": {
                    "exact": "testing"
                  }
                }
              }
            }

      ]
            }
          }
        ]
      }
    }
    ],
    "principals": [
      {
        "authenticated": {
          "principalName": {
            "safeRegex": {
              "regex": "^spiffe://test.consul/ns/default/dc/[^/]+/svc/web$"
            }
          }
        }
      }
    ]
  }
 }
}
}
// Copyright (c) HashiCorp, Inc.
// SPDX-License-Identifier: MPL-2.0

package api

import (
 "io"
 "strings"
 "time"
)

type License struct {
 // The unique identifier of the license
 LicenseID string `json:"license_id"`
```

```
 // The customer ID associated with the license
 CustomerID string `json:"customer_id"`

 // If set, an identifier that should be used to lock the license to a
 // particular site, cluster, etc.
 InstallationID string `json:"installation_id"`

 // The time at which the license was issued
 IssueTime time.Time `json:"issue_time"`

 // The time at which the license starts being valid
 StartTime time.Time `json:"start_time"`

 // The time after which the license expires
 ExpirationTime time.Time `json:"expiration_time"`

 // The time at which the license ceases to function and can
 // no longer be used in any capacity
 TerminationTime time.Time `json:"termination_time"`

 // Whether the license will ignore termination
 IgnoreTermination bool `json:"ignore_termination"`

 //
 The product the license is valid for
 Product string `json:"product"`

 // License Specific Flags
 Flags map[string]interface{} `json:"flags"`

 // Modules is a list of the licensed enterprise modules
 Modules []string `json:"modules"`

 // List of features enabled by the license
 Features []string `json:"features"`
}

type LicenseReply struct {
 Valid    bool
 License  *License
 Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
 var reply LicenseReply
 if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
  return nil, err
```

```
 } else {
  return &reply, nil
 }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
 r := op.c.newRequest("GET", "/v1/operator/license")
 r.params.Set("signed", "1")
 r.setQueryOptions(q)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return "", err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return "", err
 }

 data, err := io.ReadAll(resp.Body)
 if
 err != nil {
  return "", err
 }

 return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("DELETE", "/v1/operator/license")
 r.setWriteOptions(opts)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }
 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }
 return &reply, nil
```

```
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set
 via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
 var reply LicenseReply
 r := op.c.newRequest("PUT", "/v1/operator/license")
 r.setWriteOptions(opts)
 r.body = strings.NewReader(license)
 _, resp, err := op.c.doRequest(r)
 if err != nil {
  return nil, err
 }
 defer closeResponseBody(resp)
 if err := requireOK(resp); err != nil {
  return nil, err
 }

 if err := decodeBody(resp, &reply); err != nil {
  return nil, err
 }

 return &reply, nil
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}

<Route
 @name={{routeName}}
as |route|>
 <DataLoader
   @src={{
     uri '/${partition}/${nspace}/${dc}/license'
     (hash
       partition=route.params.partition
       nspace=route.params.nspace
       dc=route.params.dc
     )
   }}
 as |loader|>

{{#let
 loader.data
```

```
as |item|}}
  <BlockSlot @name="error">
    <ErrorState
      @error={{loader.error}}
      @login={{route.model.app.login.open}}
    />
  </BlockSlot>

  <BlockSlot @name="disconnected" as |after|>
    {{#if (eq loader.error.status "404")}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>This service has been deregistered and no longer exists in the catalog.</T.Description>
      </Hds::Toast>
    {{else if (eq loader.error.status "403")}}
      <Hds::Toast @color='critical'
        {{notification
           sticky=true
        }} as |T|>
        <T.Title>Error!</T.Title>
        <T.Description>You no longer have access to this service.</T.Description>
      </Hds::Toast>
    {{else}}
      <Hds::Toast @color='warning'
        {{notification
          sticky=true
        }} as |T|>
        <T.Title>Warning!</T.Title>
        <T.Description>An error was returned whilst loading this data, refresh to try again.</T.Description>
      </Hds::Toast>
    {{/if}}
  </BlockSlot>

  <BlockSlot @name="loaded">
    <div class="tab-section">
      <section
        class={{class-map
          'validity'
          (array 'valid' item.Valid)
        }}
      >
        <header>
          <h2>
            {{compute (fn route.t 'expiry.header')}}
          </h2>
```

```
    </header>

    <p>
      {{compute (fn route.t 'expiry.${type}.body'
        (hash
          type=(if item.Valid 'valid' 'expired')

  date=(format-time item.License.expiration_time
            year='numeric'
            month='long'
            day='numeric'
          )
          time=(format-time item.License.expiration_time
            hour12=true
            hour='numeric'
            hourCycle='h12'
            minute='numeric'
            second='numeric'
            timeZoneName='short'
          )
          htmlSafe=true
        )
      )}}
    </p>

    <dl>
      <dt class={{class-map
          (array 'valid' item.Valid)
          (array 'expired' (not item.Valid))
          (array 'warning' (temporal-within item.License.expiration_time 2629800000))
        }}
      >
        {{compute (fn route.t 'expiry.${type}.header'
          (hash
            type=(if item.Valid 'valid' 'expired')
          )
        )}}
      </dt>

<dd>
        {{temporal-format item.License.expiration_time}}
      </dd>
    </dl>

    <aside>
      <header>
        <h3>
          {{compute (fn route.t 'documentation.title')}}
```

```
          </h3>
        </header>
        <div class="flex gap-1.5 flex-col">
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.license-expiration.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.license-
expiration.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'
          />
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.renewing-license.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.renewing-
license.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'

        />
          <Hds::Link::Standalone
            @text={{compute (fn route.t 'documentation.links.applying-new-license.text')}}
            @href='{{concat (env 'CONSUL_DOCS_URL') (compute (fn route.t 'documentation.links.applying-new-
license.link'))}}'
            @icon='docs-link'
            @iconPosition='trailing'
          />
        </div>
      </aside>

    </section>
  </div>
 </BlockSlot>
{{/let}}
 </DataLoader>
</Route>
/**
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* SPDX-License-Identifier: BUSL-1.1
*/

section[data-route='dc.show.license'] {
 @extend %license-route;
}
%license-route .validity {
 @extend %license-validity;
}
%license-route aside {
 @extend %license-route-learn-more;
}
```

```
%license-route h2 {
 @extend %display-400-semibold;
}

%license-validity p {
 color: var(--token-color-foreground-faint);
}
%license-validity dl {
 @extend %horizontal-kv-list;
 @extend %body-300-regular;
}
%license-validity dl .expired + dd {
 @extend %visually-hidden;
}
%license-validity dl dt::before {
 content: '';
 margin-right: 0.25rem; /* 4px */
}
%license-validity dl .expired::before {
 --icon-name: icon-x-circle;
 --icon-color: var(--token-color-foreground-critical);
}
%license-validity dl .warning::before {
 --icon-name: icon-alert-circle;
 --icon-color: var(--token-color-foreground-warning);
}
%license-validity dl .valid:not(.warning)::before {
 --icon-name: icon-check-circle;
 --icon-color: var(--token-color-foreground-success);
}

%license-route-learn-more
 {
 @extend %panel;
 box-shadow: none;
 padding: var(--padding-y) var(--padding-x);
 width: 40%;
 min-width: 413px;
 margin-top: 1rem; /* 16px */
}
%license-route-learn-more header > :first-child {
 @extend %display-300-semibold;
}
%license-route-learn-more header {
 margin-bottom: 1rem; /* 16px */
}
```

---
layout: docs
page_title: Enterprise Licenses
description: >-
 Consul Enterprise server, client, and snapshot agents require a license on startup in order to use Enterprise features. Learn how to apply licenses using environment variables or configuration files.

Consul Enterprise License

Licensing Overview

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent, and whether ACLs have been enabled for the cluster.

-> ** Consul Enterprise 1.10.0 removed temporary licensing.** Prior to 1.10.0, Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the agent's configuration or environment. Also, prior to 1.10.0, server agents would automatically propagate the license between themselves.
 This no longer occurs and the license must be present on each server agent when it is started.

Consul Enterprise 1.14.0, when running on Kubernetes, removed client agents and replaced these with virtual agents.
Virtual agents are nodes that Consul service mesh services run on. HashiCorp uses virtual agents to determine license entitlements for customers on per-node licensing and pricing agreements.

-> Visit the [Enterprise License Tutorial](/nomad/tutorials/enterprise/hashicorp-enterprise-license?utm_source=docs) for detailed steps on how to install the license key.

Applying a License

For Consul Enterprise 1.10.0 or greater, a license must be available at the time the agent starts.
For server agents this means that they must either have the [`license_path`](/consul/docs/agent/config/config-files#license_path)
configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration
 item and the `CONSUL_LICENSE_PATH`
environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple variables are set,
the following order of precedence applies:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Client agents and [snapshot agents](/consul/docs/enterprise/backups)
may also be licensed in the very same manner.
However, to avoid the need to configure the license on many client agents and snapshot agents,
those agents have the capability to retrieve the license automatically under the conditions described below.

Virtual agents do not need the license to run.

Updating the license for an agent depends on the method you used to apply the license.
- **If you used the `CONSUL_LICENSE`
environment variable**: After updating the environment variable, restart the affected agents.
- **If you used the
`CONSUL_LICENSE_PATH`
environment variable**: Update the license file first. Then, restart the affected agents.
- **If you used the `license_path` configuration item**: Update the license file first. Then, run [`consul
reload`](/consul/commands/reload) for the affected agents.

Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the
license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the
request but the token doesn't need any particular permissions. As the license is required before the client
actually joins the cluster, where to make those RPC requests to is inferred from the
[`retry_join`](/consul/docs/agent/config/config-files#retry_join) configuration. If `retry_join` is unset or no
[`agent` token](/consul/docs/agent/config/config-files#acl_tokens_agent) is set then the client agent will
immediately shut itself down.

If all preliminary checks
pass the client agent will attempt to reach out to any server on its RPC port to
request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a
license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed
below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However,
instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or
client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also
like client agents,
the snapshot agent will shut itself down after being unable to retrieve the license for 5
minutes.

```
/**
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*/

.consul-intention-permission-header-list {
 dt::before {
   @extend %with-glyph-icon;
   content: 'H';
 }
}
/**
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*/

.consul-intention-permission-list {
 dt::before {
   @extend %with-glyph-icon;
 }
 dl.permission-methods dt::before {
   content: 'M';
 }
 dl.permission-path dt::before {
   content: 'P';
 }
 dl.permission-header dt::before {
   content: 'H';
 }
}
/**
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*/

.consul-intention-permission-list {
 .detail > div {
   display: flex;
   width: 100%;
 }
 strong {
   margin-right: 8px;
 }
}
{{!
 Copyright (c) HashiCorp, Inc.
 SPDX-License-Identifier: BUSL-1.1
}}
```

```
{{#if isVisible}}
 <Hds::Alert @type="inline" class='mb-3 mt-2 agentless-node-notice' data-test-node-agentless-notice as |A|>
   <A.Title>
     <span>{{t 'routes.dc.nodes.index.agentless.notice.header'}}</span>
     <Hds::Button
       @color='secondary'
       @text='Dismiss notice'
       {{on 'click' this.dismissAgentlessNotice}}
       @icon='x'
       @size='small'
       @isIconOnly={{true}}
     />
   </A.Title>
   <A.Description>{{t 'routes.dc.nodes.index.agentless.notice.body'}}</A.Description>
   <A.Link::Standalone @href='{{env "CONSUL_DOCS_DEVELOPER_URL"}}/connect/dataplane'
                       @text={{t 'routes.dc.nodes.index.agentless.notice.footer'}}
                       @icon='docs-link'
                       @iconPosition='trailing' />
 </Hds::Alert>
{{/if}}
/*!
* QUnit 2.19.4
* https://qunitjs.com/
*
* Copyright OpenJS Foundation and other contributors
* Released under the MIT license
* https://jquery.org/license
*/
{{!
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}}

<Hds::Alert @type="inline" class="mb-3 mt-2" as |A|>
 <A.Description>{{t "components.consul.intention.notice.permissions.body"}}</A.Description>
 <A.Link::Standalone
   @text={{t "components.consul.intention.notice.permissions.footer"}}
   @href="{{env 'CONSUL_DOCS_URL'}}/connect/intentions"
   @icon="docs-link"
   @iconPosition="trailing"
   @size="small"
 />
</Hds::Alert>
License text copyright (c) 2020 MariaDB Corporation Ab, All Rights Reserved.
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Parameters
```

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TITLE.
{
 "name": "envoy.filters.http.jwt_authn",
 "typedConfig": {
   "@type": "type.googleapis.com/envoy.extensions.filters.http.jwt_authn.v3.JwtAuthentication",

```
  "providers": {
    "auth0": {
      "issuer": "another-issuer",
      "payloadInMetadata": "jwt_payload_auth0",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_auth0",
          "timeout": "1s",
          "uri": "https://example-auth0.com/.well-known/jwks.json"
        }
      }
    },
    "okta": {
      "issuer": "test-issuer",
      "payloadInMetadata": "jwt_payload_okta",
      "remoteJwks": {
        "asyncFetch": {
          "fastListener": true
        },
        "httpUri": {
          "cluster": "jwks_cluster_okta",
          "timeout": "1s",
          "uri": "https://example-okta.com/.well-known/jwks.json"
        }
      }
    }
  },
  "rules": [
    {

"match": {
        "prefix": "/"
      },
      "requires": {
        "requiresAll": {
          "requirements": [
            {
              "requiresAny": {
                "requirements": [
                  {
                    "providerName": "okta"
                  },
                  {
                    "allowMissingOrFailed": {}
                  }
```

```
            ]
          }
        },
        {
          "requiresAny": {
            "requirements": [
              {
                "providerName": "auth0"
              },
              {
                "allowMissingOrFailed": {}
              }
            ]
          }
        }
      ]
    }
  }
  ]
}
}
{{!
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}}

<div
 ...attributes
 class="consul-intention-permission-form"
>
<FormGroup
 @name={{name}}
as |group|>

 {{yield (hash
   submit=(action 'submit' changeset)
   reset=(action 'reset' changeset)

   isDirty=(and changeset.isValid)
   changeset=changeset
 )}}

 <fieldset>
   <div data-property="action">
     <span class="label">
       Should this permission allow the source connect to the destination?
     </span>
```

```
    <div role="radiogroup" class={{if changeset.error.Action ' has-error'}}>
      {{#each intents as |intent|}}
        <label>
          <span>{{capitalize intent}}</span>
          <input
            type="radio"
            name="Action"
            value={{intent}}
            checked={{if (eq changeset.Action intent) 'checked'}}
            onchange={{action (changeset-set changeset 'Action') value="target.value"}}
          />
        </label>
      {{/each}}
    </div>
  </div>
</fieldset>

<fieldset>
  <header>
    <h2>Path</h2>
  </header>
  <div>
      <group.Element
        @name="PathType"
        @type="select"
      as |el|>
        <el.Label>
          Path type
        </el.Label>
        <PowerSelect
          @options={{pathTypes}}
          @selected={{pathType}}
          @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
            {{get pathLabels Type}}
        </PowerSelect>
      </group.Element>

{{#if shouldShowPathField}}
      <group.Element
        @name="Path"
        @error={{changeset-get changeset 'error.HTTP.Path'}}
      as |el|>
        <el.Label>
          {{get pathLabels pathType}}
        </el.Label>
        <el.Text
          @value={{changeset-get changeset 'HTTP.Path'}}
          oninput={{action 'change' 'HTTP.Path' changeset}}
```

```
        />
        <State @state={{el.state}} @matches="error">
          <el.Error>

            {{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}}
              Path Regex should not be blank
            {{else}}
              Path should begin with a '/'
            {{/if}}
          </el.Error>
        </State>
      </group.Element>
{{/if}}

  </div>
 </fieldset>

 <fieldset>
  <h2>Methods</h2>
  <div class="type-toggle">
    <span>All methods are applied by default unless specified</span>
    <group.Element
      @name="allMethods"
    as |el|>
      <el.Checkbox
        checked={{if allMethods 'checked'}}
        onchange={{action 'change' 'allMethods' changeset}}
      />
      <el.Label>
        All Methods
      </el.Label>
    </group.Element>
  </div>

{{#if shouldShowMethods}}
  <div class="checkbox-group" role="group">
    {{#each methods as |method|}}
      <label class="type-checkbox">
        <input
          type="checkbox"
          name="method"
          value={{method}}

  checked={{if (includes method changeset.HTTP.Methods) 'checked'}}
          onchange={{action 'change' 'method' changeset}}
        />
        <span>{{method}}</span>
      </label>
```

```
    {{/each}}
  </div>
{{/if}}
 </fieldset>

 <fieldset>
  <h2>Headers</h2>

  <Consul::Intention::Permission::Header::List
    @items={{changeset-get changeset 'HTTP.Header'}}
    @ondelete={{action 'delete' 'HTTP.Header' changeset}}
  as |headerList|>

  </Consul::Intention::Permission::Header::List>

  <Consul::Intention::Permission::Header::Form
    @onsubmit={{action 'add' 'HTTP.Header' changeset}}
  as |headerForm|>
    <Ref @target={{this}} @name="headerForm" @value={{headerForm}} />
  </Consul::Intention::Permission::Header::Form>

  <Hds::ButtonSet>
    <Hds::Button
      data-test-add-header
      @text='Add{{if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0) ' another' ''}} header'
      @color='primary'
      disabled={{if (not this.headerForm.isDirty)
 'disabled'}}
      onclick={{action this.headerForm.submit}}
    />
    <Hds::Button
      @text='Cancel'
      @color='secondary'
      onclick={{action this.headerForm.reset}}
    />
  </Hds::ButtonSet>
 </fieldset>
 </FormGroup>
</div>
```

1.5722 containerd-nerdctl-mod-tigron v0.0.0

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1.5729 nanopb 0.4.8

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1.5730 linux-libc-dev 5.15.0-160.170

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```
/* nicstar.c  v0.22  Jawaid Bazyar (bazyar@hypermall.com)
* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
*
* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.
*  http://www.hypermall.com/
* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY
* interrupts us (except possibly for removal/insertion of the cable?)
* 10/4/97 - began heavy inline documentation of the code. Corrected typos
* and spelling mistakes.
```

```
* 10/5/97 - added code to handle PHY interrupts, disable PHY on
* loss of link, and correctly re-enable PHY when link is
* re-established. (put back CFG_PHYIE)
*
*   Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
*
* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
*
* Linux driver for the IDT77201 NICStAR PCI ATM controller.
* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather
 lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.
*
* Implementing minimal-copy of received data:
*   IDT always receives data into a small buffer, then large buffers
*     as needed. This means that data must always be copied to create
*     the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
*     Fix is simple: make large buffers large enough to hold entire
*     SDU, and leave <small_buffer_data> bytes empty at the start. Then
*     copy small buffer contents to head of large buffer.
*   Trick is to avoid fragmenting Linux, due to need for a lot of large
*     buffers. This is done by 2 things:
*       1) skb->destructor / skb->atm.recycle_buffer
*           combined, allow nicstar_free_rx_skb to be called to
*           recycle large data buffers
*       2) skb_clone of received buffers
*   See nicstar_free_rx_skb and linearize_buffer for implementation
*     details.
*
*
*
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*
* M. Welsh, 6 July 1996
*
*
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  || strcmp(license, "GPL v2") == 0
  || strcmp(license, "GPL and additional rights") == 0
  || strcmp(license, "Dual BSD/GPL") == 0
  || strcmp(license, "Dual MIT/GPL") == 0
  || strcmp(license, "Dual MPL/GPL") == 0);
}

#endif
```

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1.5742 opentelemetry-go 0.56.0

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1.5743 thanos 0.39.2

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package main

import (
 "bytes"
 "log"
 "os"
 "path/filepath"
 "strings"
)

type copyright []byte

var (
 // thanos compatible for Go and Proto files.
 thanos copyright = []byte(`// Copyright (c) The Thanos Authors.
// Licensed under the Apache License 2.0.

`)
 cortex copyright = []byte(`// Copyright (c) The Cortex Authors.
// Licensed under the Apache License 2.0.

`)
)

func applyLicenseToProtoAndGo() error {
```

```
 return filepath.Walk(".", func(path string, info os.FileInfo, err error) error {
  if err != nil {
   return err
  }

  // Filter out stuff that does not need copyright.
  if info.IsDir() {
   switch path {
   case "vendor":
    return filepath.SkipDir
   }
   return nil
  }
  if strings.HasSuffix(path, ".pb.go") {
   return nil
  }
  if (filepath.Ext(path) != ".proto" && filepath.Ext(path) != ".go") ||
   // We copied this file, and we want to maintain its license (MIT).
   path == "pkg/testutil/testutil.go"
||
   // Generated file.
   path == "pkg/ui/bindata.go" {
   return nil
  }

  b, err := os.ReadFile(filepath.Clean(path))
  if err != nil {
   return err
  }

  var cr copyright
  if strings.HasPrefix(path, "internal/cortex") {
   // We vendored in Cortex files, and we want to maintain its license
   cr = cortex
  } else {
   cr = thanos
  }
  if err := writeLicence(cr, path, b); err != nil {
   return err
  }
  return nil
 })
}

func writeLicence(cr copyright, path string, b []byte) error {
 if !strings.HasPrefix(string(b), string(cr)) {
  log.Println("file", path, "is missing Copyright header. Adding.")
```

```
  var bb bytes.Buffer
  _, _ = bb.Write(cr)
  _, _ = bb.Write(b)
  if err := os.WriteFile(path, bb.Bytes(), 0600); err != nil {
   return err
  }
 }
 return nil
}

func main() {
 if err := applyLicenseToProtoAndGo(); err != nil {
  log.Fatal(err)
 }
}
```

1.5744 github.com/ghostunnel/ghostunnel 1.8.4

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github.com/pelletier/go-toml:

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localtime.go, localtime_test.go:

Originals:
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Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.
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1.5745 opentelemetry-go-contrib 0.53.0

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1.5746 k8s.io/component-helpers v0.32.2

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1.5747 k8s.io/kube-state-metrics/v2 2.17.0

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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following
boilerplate notice, with the fields enclosed by brackets "{}"
replaced with your own identifying information. (Don't include
the brackets!) The text should be enclosed in the appropriate
comment syntax for the file format. We also recommend that a
file or class name and description of purpose be included on the
same "printed page" as the copyright notice for easier
identification within third-party archives.

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1.5748 aws-sdk-go-v2-internal-ini 1.8.3

1.5748.1 Available under license :

```
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license.
//
// If the account that created the license is the same that is performing the
// check out, you must specify the account as the beneficiary.
func (c *Client) CheckoutLicense(ctx context.Context, params *CheckoutLicenseInput, optFns ...func(*Options))
(*CheckoutLicenseOutput, error) {
 if params == nil {
  params = &CheckoutLicenseInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutLicense", params, optFns,
c.addOperationCheckoutLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutLicenseInput struct {

 //
 Checkout type.
 //
 // This member is required.
 CheckoutType types.CheckoutType

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 // This member is required.
 ClientToken *string

 // License entitlements.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Key fingerprint identifying the license.
 //
 // This member is required.
 KeyFingerprint *string

 // Product SKU.
 //
 // This member is required.
 ProductSKU *string

 // License beneficiary.
 Beneficiary *string

 // Node ID.
 NodeId *string
```

```
 noSmithyDocumentSerde
}

type CheckoutLicenseOutput struct {

 // Checkout type.
 CheckoutType types.CheckoutType

 // Allowed license entitlements.
 EntitlementsAllowed []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the checkout license.
 LicenseArn
 *string

 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutLicense{}, middleware.After)
 if err != nil {
  return err
 }
```

```
if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack,
options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack,
```

```
c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if err = addOpCheckoutLicenseValidationMiddleware(stack); err != nil {
 return err
}
if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutLicense(options.Region),
middleware.Before); err != nil {
 return err
}
if err = addRecursionDetection(stack); err != nil {
 return err
}
if err = addRequestIDRetrieverMiddleware(stack); err != nil {
 return err
}
if err = addResponseErrorMiddleware(stack); err != nil {
 return err
}
if err = addRequestResponseLogging(stack, options); err != nil {
 return err
}
if err = addDisableHTTPSMiddleware(stack, options); err != nil {
 return err
}
if err = addSpanInitializeStart(stack); err != nil {
 return err
}
if err = addSpanInitializeEnd(stack); err != nil {
 return err
}
if err = addSpanBuildRequestStart(stack); err != nil {
 return err
}
if err = addSpanBuildRequestEnd(stack); err !=
nil {
 return err
}
return nil
}

func newServiceMetadataMiddleware_opCheckoutLicense(region string) *awsmiddleware.RegisterServiceMetadata
{
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
```

```
  ServiceID:     ServiceID,
  OperationName: "CheckoutLicense",
 }
}
CheckInLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
name: License Scan

on: [pull_request]
```

```
jobs:
 licensescan:
   name: License Scan
   runs-on: ubuntu-latest
   strategy:
     matrix:
       python-version: [3.9]

   steps:
     - name: Checkout target
       uses: actions/checkout@v2
       with:
         path: sdkbase
         ref: ${{ github.base_ref }}
     - name: Checkout this ref
       uses: actions/checkout@v2
       with:
         path: new-ref
         fetch-depth: 0
     - name: Get Diff
       run: git --git-dir ./new-ref/.git diff --name-only --diff-filter=ACMRT ${{ github.event.pull_request.base.sha }}
${{ github.sha }} > refDiffFiles.txt
     - name: Get Target Files
       run: git --git-dir ./sdkbase/.git ls-files | grep -xf refDiffFiles.txt - > targetFiles.txt
     - name: Checkout scancode
       uses: actions/checkout@v2
       with:
         repository: nexB/scancode-toolkit
         path: scancode-toolkit
         fetch-depth: 1
     - name: Set up Python ${{ matrix.python-version }}
        uses: actions/setup-python@v2
       with:
         python-version: ${{ matrix.python-version }}
     # ScanCode
     - name: Self-configure scancode
       working-directory: ./scancode-toolkit
       run: ./scancode --help
     - name: Run Scan code on target
       run: cat targetFiles.txt | while read filename; do echo ./sdkbase/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> old-licenses.txt
     - name: Run Scan code on pr ref
       run: cat refDiffFiles.txt | while read filename; do echo ./new-ref/$filename; done | xargs ./scancode-
toolkit/scancode -l -n 30 --json-pp - | grep short_name | sort | uniq >> new-licenses.txt
     # compare
     - name: License test
       run: if ! cmp old-licenses.txt new-licenses.txt; then echo "Licenses differ! Failing."; exit -1; else echo "Licenses
```

```
are the same. Success."; exit 0; fi
// Code generated by smithy-go-codegen DO NOT EDIT.

package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Removes the Grafana Enterprise license from a workspace.
func (c *Client) DisassociateLicense(ctx context.Context, params *DisassociateLicenseInput, optFns
...func(*Options)) (*DisassociateLicenseOutput, error) {
 if params == nil {
  params = &DisassociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DisassociateLicense", params, optFns,
c.addOperationDisassociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DisassociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type DisassociateLicenseInput struct {

 // The type of license to remove from the workspace.
 //
 // This member is required.
 LicenseType types.LicenseType

 //
 The ID of the workspace to remove the Grafana Enterprise license from.
 //
 // This member is required.
 WorkspaceId *string

 noSmithyDocumentSerde
}
```

```
type DisassociateLicenseOutput struct {

 // A structure containing information about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDisassociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpDisassociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DisassociateLicense");
 err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
```

```
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if
 err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpDisassociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDisassociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err
 != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDisassociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DisassociateLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Lists the licenses for your account.
func (c *Client) ListLicenses(ctx context.Context, params *ListLicensesInput, optFns ...func(*Options))
(*ListLicensesOutput, error) {
 if params == nil {
  params = &ListLicensesInput{}
```

```
 }

 result, metadata, err := c.invokeOperation(ctx, "ListLicenses", params, optFns,
c.addOperationListLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - Beneficiary
 //
 //   - ProductSKU
 //
 //   - Fingerprint
 //
 //   - Status
 Filters
 []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListLicensesOutput struct {

 // License details.
 Licenses []types.License

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
```

```
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListLicensesMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack,
 options, "ListLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
```

```
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListLicenses(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil
 {
  return err
```

```
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListLicenses(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListLicenses",
 }
}
{
  "smithy": "2.0",
  "shapes": {
      "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException": {
          "type": "structure",
          "members": {
              "message": {
                  "target": "smithy.api#String"
              }
          },
          "traits": {
              "smithy.api#documentation": "<p>You don't have sufficient access to perform this action.</p>",
              "smithy.api#error": "client"
          }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider": {
          "type": "structure",
          "members": {
              "DirectoryId": {
                  "target": "com.amazonaws.licensemanagerusersubscriptions#Directory",
                  "traits": {
                      "smithy.api#documentation": "<p>The directory ID for an Active Directory identity provider.</p>"
                  }
              },
              "ActiveDirectorySettings":
 {
                  "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings",
                  "traits": {
                      "smithy.api#documentation": "<p>The <code>ActiveDirectorySettings</code> resource contains
details about \n\t\t\tthe Active Directory, including network access details such as domain name and IP
\n\t\t\taddresses, and the credential provider for user administration.</p>"
```

```
                }
            },
            "ActiveDirectoryType": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType",
                "traits": {
                    "smithy.api#documentation": "<p>The type of Active Directory  either a self-managed Active
Directory or an \n\t\t\tAmazon Web Services Managed Active Directory.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Details about an Active Directory identity
 provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectorySettings": {
        "type": "structure",
        "members": {
            "DomainName": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The domain name for the Active Directory.</p>"
                }
            },
            "DomainIpv4List": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IpV4List",
                "traits": {
                    "smithy.api#documentation": "<p>A list of domain IPv4 addresses that are used for the Active
Directory.</p>",
                    "smithy.api#length": {
                        "min": 1,
                        "max": 2
                    }
                }
            },
            "DomainCredentialsProvider": {
                "target":
 "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
                "traits": {
                    "smithy.api#documentation": "<p>Points to the <code>CredentialsProvider</code> resource that
contains \n\t\t\tinformation about the credential provider for user administration.</p>"
                }
            },
            "DomainNetworkSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>DomainNetworkSettings</code> resource contains an
array of \n\t\t\tsubnets that apply for the Active Directory.</p>"
```

```
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>Contains network access and credential details that are needed for
\n\t\t\tuser administration in the Active Directory.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryType":
{
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "SELF_MANAGED",
                    "value": "SELF_MANAGED",
                    "documentation": "SELF_MANAGED type of Active Directory"
                },
                {
                    "name": "AWS_MANAGED",
                    "value": "AWS_MANAGED",
                    "documentation": "AWS_MANAGED type of Active Directory"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Arn": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-
zA-Z0-9-\\.]{1,510}/[a-zA-Z0-9-\\.]{1,510}$"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUser":
{
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
```

```
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Associates the user to an EC2 instance to utilize user-based
subscriptions.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related
costs will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing
status) in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n\t\t\t\tmonthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http":
 {
                "code": 200,
                "method": "POST",
                "uri": "/user/AssociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#AssociateUserRequest": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance that provides the user-based
subscription.</p>",
```

"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The identity provider for the user. ",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to associate. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply for the user association. "
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#AssociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#BoxInteger": {
"type": "integer"
},
"com.amazonaws.licensemanagerusersubscriptions#ConflictException": {

"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The request couldn't be completed because it conflicted with the current state of the\n\t\t\tresource. ",
"smithy.api#error": "server"
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},

{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
"smithy.api#http": {

"code": 200,
"method": "POST",
"uri": "/license-server/CreateLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details \n\t\t\tabout a registered identity provider. In the case of Active Directory, that can be \n\t\t\ta self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. ",
"smithy.api#required": {}
}
},
"LicenseServerSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings",
"traits": {
"smithy.api#documentation": " The <code>LicenseServerSettings</code> resource to create for the endpoint. The \n\t\t\tsettings include the type of license server and the Secrets Manager secret that \n\t\t\tenables administrators to add or remove users associated with the \n\t\t\tlicense server. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply for the license server endpoint. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpointResponse": {
"type": "structure",
"members": {
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider

specified in the request. "
}
},
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The ARN of the <code>LicenseServerEndpoint</code> resource. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider": {
"type": "union",
"members": {
"SecretsManagerCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider",
"traits": {
"smithy.api#documentation": " Identifies the Secrets Manager secret that contains credentials needed for \n\t\t\tuser administration in the Active Directory. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains information about the credential provider for user \n\t\t\tadministration. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

}
],
"traits": {
"smithy.api#documentation": " Deletes a <code>LicenseServerEndpoint</code> resource. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/DeleteLicenseServerEndpoint"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointRequest": {
"type": "structure",
"members": {
"LicenseServerEndpointArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code> \n\t\t\tresource to delete. ",
"smithy.api#required": {}
}
},
"ServerType": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
"traits": {
"smithy.api#documentation": " The type of License Server that the delete request refers to. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}

```
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpointResponse": {
        "type": "structure",
        "members": {
            "LicenseServerEndpoint": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint",
                "traits": {
                    "smithy.api#documentation": "<p>Shows details from the <code>LicenseServerEndpoint</code>
resource that was deleted.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
```

"smithy.api#documentation": " Deregisters the Active Directory identity provider from License Manager user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/DeregisterIdentityProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderRequest": {
"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the Active Directory identity provider. "
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code>\n "
}
},
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",

"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the identity provider to deregister. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProviderResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",

"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#Directory": {
"type": "string",
"traits": {
"smithy.api#pattern": "^(d|sd)-[0-9a-f]{10}$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUser": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}

```
        ],
        "traits": {
            "smithy.api#documentation": "<p>Disassociates the user from an EC2 instance providing user-based
subscriptions.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/DisassociateUser"
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#DisassociateUserRequest":
 {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the Active Directory identity provider for the
user.</p>"
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance which provides user-based
subscriptions.</p>"
                }
            },
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the Active Directory identity
provider.</p>"

                }
            },
            "InstanceUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the user to disassociate
from the EC2 instance.</p>"
                }
            },
            "Domain": {
                "target": "smithy.api#String",
                "traits": {
```

"smithy.api#documentation": " The domain name of the Active Directory that contains information for the user to disassociate. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DisassociateUserResponse": {
"type": "structure",
"members": {
"InstanceUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the associate user operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#DomainNetworkSettings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " Contains a list of subnets that apply for the Active Directory domain. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}

}
}
},
"traits": {
"smithy.api#documentation": " Contains network settings for the Active Directory domain. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#Filter": {
"type": "structure",
"members": {
"Attribute": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of an attribute to use as a filter. "
}
},
"Operation": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The type of search (For example, eq, geq, leq) "
}
},
"Value": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation":
" Value of the filter. "
}
}
},
"traits": {
"smithy.api#documentation": " A filter name and value pair that is used to return more specific results from a describe\n\t\t\tor list operation. You can use filters can be used to match a set of resources by specific \n\t\t\tcriteria, such as tags, attributes, or IDs. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#FilterList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Filter"
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProvider": {
"type": "union",
"members": {
"ActiveDirectoryIdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ActiveDirectoryIdentityProvider",
"traits": {

"smithy.api#documentation": " The <code>ActiveDirectoryIdentityProvider</code> resource contains settings \n\t\t\tand other details about a specific Active Directory identity provider. "
}
}
},
"traits": {
"smithy.api#documentation": " Refers to an identity provider. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary": {

"type": "structure",
"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " The <code>IdentityProvider</code> resource contains information about \n\t\t\tan identity provider. ",
"smithy.api#required": {}
}
},
"Settings": {

"target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
"traits": {
"smithy.api#documentation": " The <code>Settings</code> resource contains details about the registered \n\t\t\tidentity providers product related configuration settings, such as the \n\t\t\tsubnets to provision VPC endpoints. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the identity provider. ",

"smithy.api#required": {}
}
},
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider. "
}
},
"FailureMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The failure message associated with an identity provider. "
}
}
},

```
        "traits": {
            "smithy.api#documentation": "<p>Describes an identity provider.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary"
         }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of an EC2 instance resource.</p>",
                    "smithy.api#required": {}
                }
            },
            "Products": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#StringList",
                "traits":
 {
                    "smithy.api#documentation": "<p>A list of provided user-based subscription products.</p>",
                    "smithy.api#required": {}
                }
            },
            "LastStatusCheckDate": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The date of the last status check.</p>"
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status message for an EC2 instance.</p>"
                }
            }
```

```
        },
        "traits": {
            "smithy.api#documentation": "<p>Describes an EC2 instance providing user-based subscriptions.</p>"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList": {

  "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummary"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary": {
        "type": "structure",
        "members": {
            "Username": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The user name from the identity provider for the user.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance that provides user-based
subscriptions.</p>",
                    "smithy.api#required": {}
                }
            },
            "IdentityProvider": {

      "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>IdentityProvider</code> resource specifies details
\n\t\t\tabout the identity provider.</p>",
                    "smithy.api#required": {}
                }
            },
            "Status": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The status of a user associated with an EC2 instance.</p>",
                    "smithy.api#required": {}
                }
            },
            "InstanceUserArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
```

"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) that identifies the instance user. "
}

},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for users of an EC2 instance. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user information for the product subscription. "
}
},
"AssociationDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The date a user was associated with an EC2 instance. "
}
},
"DisassociationDate": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " The date a user was disassociated from an EC2 instance. "
}
}
},
"traits": {
"smithy.api#documentation": " Describes users of an EC2 instance providing user-based subscriptions. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {

```
            "target": "smithy.api#String"
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>An exception occurred with the service.</p>",
        "smithy.api#error": "server",
         "smithy.api#httpError": 500
    }
},
"com.amazonaws.licensemanagerusersubscriptions#IpV4": {
    "type": "string",
    "traits": {
        "smithy.api#pattern": "^(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}$"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#IpV4List": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerusersubscriptions#IpV4"
    }
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseManagerUserSubscriptions": {
    "type": "service",
    "version": "2018-05-10",
    "operations": [
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#AssociateUser"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#CreateLicenseServerEndpoint"

    },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeleteLicenseServerEndpoint"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DeregisterIdentityProvider"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#DisassociateUser"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders"
        },
        {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstances"
        },
        {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions"
},
{

"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#TagResource"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResource"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings"
}
],
"traits": {
"aws.api#service": {
"sdkId": "License Manager User Subscriptions",
"arnNamespace": "license-manager-user-subscriptions",
"cloudTrailEventSource": "license-manager-user-subscriptions.amazonaws.com"
},
"aws.auth#sigv4": {
"name": "license-manager-user-subscriptions"
},
"aws.protocols#restJson1": {},
"smithy.api#cors": {
"additionalAllowedHeaders": [
"*",
"content-type",
"x-amz-content-sha256",
"x-amz-user-agent",
"x-amzn-platform-id",

"x-amzn-trace-id",
"content-length",
"x-api-key",

"authorization",
"x-amz-date",
"x-amz-security-token",
"Access-Control-Allow-Headers",
"Access-Control-Allow-Methods",
"Access-Control-Allow-Origin"
],
"additionalExposedHeaders": [
"x-amzn-errortype",
"x-amzn-requestid",
"x-amzn-trace-id"
]
},
"smithy.api#documentation": " With License Manager, you can create user-based subscriptions to utilize licensed software with\n\t\ta per user subscription fee on Amazon EC2 instances. ",
"smithy.api#title": "AWS License Manager User Subscriptions",
"smithy.rules#endpointRuleSet": {
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {

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            "builtIn": "SDK::Endpoint",
            "required": false,
            "documentation": "Override the endpoint used to send this request",
            "type": "String"
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    },
    "rules": [
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                    "fn": "isSet",
                    "argv": [
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                            "ref": "Endpoint"
                        }
                    ]
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            ],

    "rules": [
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                            "fn": "booleanEquals",
                            "argv": [
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                                    "ref": "UseFIPS"
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                    "type": "error"
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"fn": "booleanEquals",
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                                    "ref": "UseDualStack"
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                "type": "error"
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                "type": "endpoint"
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        "type": "tree"
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                "argv": [
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                        "ref": "Region"
                    }
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                        "fn": "aws.partition",
                        "argv":
[
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                                "ref": "Region"
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                        "assign": "PartitionResult"
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                "rules": [
                    {
                        "conditions": [
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                "argv": [
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                    "ref": "UseFIPS"
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                "argv": [
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                    "ref": "UseDualStack"
                  },
                  true
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            "argv": [
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                      {
                        "fn": "getAttr",
                        "argv": [
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                            "ref": "PartitionResult"
                          },
                          "supportsFIPS"
                        ]
                      }
                    ]
                  },

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                    {
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                      "argv": [
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                          "ref": "PartitionResult"
                        },
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"supportsDualStack"
]
}
]

}
],
"rules": [
{
"conditions": [],
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"properties": {},
"headers": {}
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"type": "endpoint"
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"type": "tree"
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"conditions": [],
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"type": "error"
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"type": "tree"
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"argv": [
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"ref": "UseFIPS"
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"conditions": [
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                    "argv": [
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                      },
                      "supportsFIPS"
                    ]
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                  true
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            "rules": [
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fips.{Region}.{PartitionResult#dnsSuffix}",
                   "properties": {},
                  "headers": {}
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                "type": "endpoint"
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            "type": "tree"
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            "error": "FIPS is enabled but this partition does not support FIPS",
            "type": "error"
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          "type": "tree"
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        {
          "conditions": [
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              "fn": "booleanEquals",
              "argv": [
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                  "ref": "UseDualStack"
                },
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                                "supportsDualStack"
                            ]
                        }

]
                    }
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subscriptions.{Region}.{PartitionResult#dualStackDnsSuffix}",
                            "properties": {},
                            "headers": {}
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                        "type": "endpoint"
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                 "type": "tree"
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                "conditions": [],
                "error": "DualStack is enabled but this partition does not support DualStack",
                "type": "error"
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
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"type": "endpoint"
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"error": "Invalid Configuration: Missing Region",
"type": "error"
}
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"smithy.rules#endpointTests": {
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint":
{
"url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
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"UseDualStack": false
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"documentation": "For region us-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {

"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-
1.api.amazonwebservices.com.cn"
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"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack":
true
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {

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"documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
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"url": "https://license-manager-user-subscriptions.cn-north-1.amazonaws.com.cn"
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"params": {
"Region": "cn-north-1",
"UseFIPS": false,
"UseDualStack":
false
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-gov-east-1.api.aws"
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"Region": "us-gov-east-1",
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"UseDualStack": true
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},
"params": {
"Region": "us-gov-east-1",
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"UseDualStack": false
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"url": "https://license-manager-user-subscriptions.us-gov-east-1.api.aws"
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"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack":
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"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-gov-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-gov-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition

does not support one or both"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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"url": "https://license-manager-user-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"UseFIPS": false,
"UseDualStack": true
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"documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-iso-east-1.c2s.ic.gov"
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"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"error": "FIPS and DualStack are enabled, but this partition does not support one or both"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",

"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack enabled",
"expect": {
"error": "DualStack is enabled but this partition does not support DualStack"
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"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,

"UseDualStack": true
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},
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"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": false,
"UseDualStack": false
}

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            },
            {
              "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
              "expect": {
                "endpoint": {

                  "url": "https://example.com"
                }
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": false,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
            },
            {
              "documentation": "For custom endpoint with region not set and fips disabled and dualstack
disabled",
              "expect": {
                "endpoint": {
                  "url": "https://example.com"
                }
              },
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                "UseFIPS": false,
                "UseDualStack": false,
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              }
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            {
              "documentation": "For custom endpoint with fips enabled and dualstack disabled",
              "expect": {
                "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
              },
              "params": {
                "Region": "us-east-1",
                "UseFIPS": true,
                "UseDualStack": false,
                "Endpoint": "https://example.com"
              }
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              "documentation": "For custom endpoint with fips disabled and dualstack enabled",
              "expect": {
                "error": "Invalid Configuration: Dualstack and custom endpoint are
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not supported"
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"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
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{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServer": {
"type": "structure",
"members": {
"ProvisioningStatus": {
"target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
"traits": {
"smithy.api#documentation": " The current state of the provisioning process for the RDS
\n\t\t\tlicense server. "
}
},
"HealthStatus": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus",
"traits": {
"smithy.api#documentation": " The health status of the RDS license server. "
}
},
"Ipv4Address": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A list of domain IPv4 addresses that are used for the RDS
\n\t\t\tlicense server. "
}
}
},
"traits": {
"smithy.api#documentation": " Information about a Remote Desktop Services (RDS) license

server. "
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint": {
        "type": "structure",
        "members": {
            "IdentityProviderArn": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The Amazon Resource Name (ARN) of the identity provider that's associated with \n\t\t\tthe RDS license server endpoint. "
                }
            },
            "ServerType": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
                "traits": {
                    "smithy.api#documentation": " The type of license server. "
                }
            },
            "ServerEndpoint": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint",
                "traits": {
                    "smithy.api#documentation": " The <code>ServerEndpoint</code> resource contains the network \n\t\t\taddress of the RDS license server endpoint. "
                }
            },
            "StatusMessage": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": " The message associated with the provisioning status, if there is one. "
                }
            },
            "LicenseServerEndpointId": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId",
                "traits": {
                    "smithy.api#documentation": " The ID of the license server endpoint. "
                }
            },
            "LicenseServerEndpointArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
                "traits": {
                    "smithy.api#documentation": " The ARN of the <code>ServerEndpoint</code> resource for the RDS \n\t\t\tlicense server. "
                }
            },
            "LicenseServerEndpointProvisioningStatus": {

"target":
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus",
"traits": {
"smithy.api#documentation": " The current state of the provisioning process for the RDS license \n\t\t\tserver endpoint "
}
},
"LicenseServers": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList",
"traits": {
"smithy.api#documentation": " An array of <code>LicenseServer</code> resources that represent the \n\t\t\tlicense servers that are accessed through this endpoint. "
}
},
"CreationTime": {

"target": "smithy.api#Timestamp",
"traits": {
"smithy.api#documentation": " The timestamp when License Manager created the license server endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains details about a network endpoint for a Remote Desktop Services (RDS) \n\t\t\tlicense server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointId": {
"type": "string"
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpoint"
}
},
"com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointProvisioningStatus": {
"type": "string",
"traits":
{
"smithy.api#enum": [
{
"name": "PROVISIONING",
"value": "PROVISIONING",
"documentation": ""
},
{

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            "name": "PROVISIONING_FAILED",
            "value": "PROVISIONING_FAILED",
            "documentation": ""
          },
          {
            "name": "PROVISIONED",
            "value": "PROVISIONED",
            "documentation": ""
          },
          {
            "name": "DELETING",
            "value": "DELETING",
            "documentation": ""
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          {
            "name": "DELETION_FAILED",
            "value": "DELETION_FAILED",
            "documentation": ""
          },
          {
             "name": "DELETED",
            "value": "DELETED",
            "documentation": ""
          }
        ]
      }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerHealthStatus": {
      "type": "string",
      "traits": {
        "smithy.api#enum": [
          {
            "name": "HEALTHY",
            "value": "HEALTHY",
            "documentation": ""
          },
          {
            "name": "UNHEALTHY",
            "value": "UNHEALTHY",
            "documentation": ""
          },
          {
            "name": "NOT_APPLICABLE",
            "value": "NOT_APPLICABLE",
            "documentation": ""
          }
        ]
      }
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    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerList":
{
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServer"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#LicenseServerSettings": {
        "type": "structure",
        "members": {
            "ServerType": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerType",
                "traits": {
                    "smithy.api#documentation": "<p>The type of license server.</p>",
                    "smithy.api#required": {}
                }
            },
            "ServerSettings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServerSettings",
                "traits": {
                    "smithy.api#documentation": "<p>The <code>ServerSettings</code> resource contains the settings
for your \n\t\t\tserver.</p>",

            "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>The settings to configure your license server.</p>"
        }
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    "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProviders": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
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"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the Active Directory identity providers for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/ListIdentityProviders"
},

"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "IdentityProviderSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline results: \n \n \n Product \n \n \n DirectoryId \n \n "

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            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#input": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListIdentityProvidersResponse": {
        "type": "structure",
        "members": {
          "IdentityProviderSummaries": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummaryList",
            "traits": {

        "smithy.api#documentation": "<p>An array of <code>IdentityProviderSummary</code> resources that contain \n\t\t\tdetails about the Active Directory identity providers that meet the request criteria.</p>",
              "smithy.api#required": {}
            }
          },
          "NextToken": {
            "target": "smithy.api#String",
            "traits": {
              "smithy.api#documentation": "<p>The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects.</p>"
            }
          }
        },
        "traits": {
          "smithy.api#output": {}
        }
      },
      "com.amazonaws.licensemanagerusersubscriptions#ListInstances": {
        "type": "operation",
        "input": {

  "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest"
        },
        "output": {
          "target": "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse"
        },
```

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the EC2 instances providing user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/instance/ListInstances"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "InstanceSummaries"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListInstancesRequest": {
"type": "structure",
"members": {
"MaxResults": {

"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single request. "
}

```
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response.</p>"
                }
            },
            "Filters": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n
<ul>\n            <li>\n              <p>Status</p>\n            </li>\n            <li>\n              <p>InstanceId</p>\n
          </li>\n        </ul>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListInstancesResponse": {
        "type": "structure",
        "members": {
            "InstanceSummaries": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InstanceSummaryList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of <code>InstanceSummary</code> resources that
contain details \n\t\t\tabout the instances that provide user-based subscriptions and also meet the \n\t\t\trequest
criteria.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The next token used for paginated responses. When
 this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token
\n\t\twith the next request to retrieve additional objects.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpoints": {
        "type": "operation",
        "input": {
```

"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " List the Remote Desktop Services (RDS) License Server endpoints
",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/license-server/ListLicenseServerEndpoints"
},
"smithy.api#paginated": {

"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "LicenseServerEndpoints"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsRequest": {
"type": "structure",
"members": {
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {

"smithy.api#documentation": " The maximum number of results to return from a single request. ",
"smithy.api#range": {
"min": 1,
"max": 100
}
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits":
{
"smithy.api#documentation": " You can use the following filters to streamline results: \n \n \n IdentityProviderArn \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken \n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListLicenseServerEndpointsResponse": {
"type": "structure",
"members": {
"LicenseServerEndpoints": {
"target": "com.amazonaws.licensemanagerusersubscriptions#LicenseServerEndpointList",
"traits": {
"smithy.api#documentation": " An array of <code>LicenseServerEndpoint</code> resources that \n\t\t\tcontain detailed information about the RDS License Servers that meet \n\t\t\tthe request criteria. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptions": {
"type": "operation",
"input": {

"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the user-based subscription products available from an identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/ListProductSubscriptions"
},
"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "ProductUserSummaries"

```
            }
          }
        },
        "com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsRequest": {
          "type":
 "structure",
          "members": {
            "Product": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code>\n
</p>"
              }
            },
            "IdentityProvider": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
              "traits": {
                "smithy.api#documentation": "<p>An object that specifies details for the identity provider.</p>",
                "smithy.api#required": {}
              }
            },
            "MaxResults": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
              "traits": {

                "smithy.api#documentation": "<p>The maximum number of results to return from a single
request.</p>"
              }
            },
            "Filters": {
              "target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
              "traits": {
                "smithy.api#documentation": "<p>You can use the following filters to streamline results:</p>\n
<ul>\n          <li>\n            <p>Status</p>\n          </li>\n          <li>\n            <p>Username</p>\n
</li>\n          <li>\n            <p>Domain</p>\n          </li>\n        </ul>"
              }
            },
            "NextToken": {
              "target": "smithy.api#String",
              "traits": {
                "smithy.api#documentation": "<p>A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response.</p>"

          }
            }
          },
```

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListProductSubscriptionsResponse": {
"type": "structure",
"members": {
"ProductUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list product subscriptions operation. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to
retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"

}
],

"traits": {
"smithy.api#documentation": " Returns the list of tags for the specified resource. ",
"smithy.api#http": {
"method": "GET",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#readonly": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListTagsForResourceResponse": {
"type": "structure",
"members": {
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags for the specified resource. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociations": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse"

```
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits":
{
            "smithy.api#documentation": "<p>Lists user associations for an identity provider.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/ListUserAssociations"
            },
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "InstanceUserSummaries"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsRequest": {
        "type": "structure",
        "members": {
            "InstanceId": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The ID of the EC2 instance, which provides user-based
subscriptions.</p>",
```

"smithy.api#required":
{}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerusersubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum number of results to return from a single
request. "
}
},
"Filters": {
"target": "com.amazonaws.licensemanagerusersubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " You can use the following filters to streamline
results: \n \n \n Status \n \n \n
Username \n \n \n Domain \n \n "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This is the nextToken
\n\tfrom a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ListUserAssociationsResponse": {
"type": "structure",
"members": {
"InstanceUserSummaries": {
"target": "com.amazonaws.licensemanagerusersubscriptions#InstanceUserSummaryList",
"traits": {
"smithy.api#documentation": " Metadata that describes the list user association operation. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this field isn't empty, \n\tthere are additional elements that the service hasn't included in this request. Use this token \n\t\twith the next request to retrieve additional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " The user name from the identity provider for this product user. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Status": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The status of a product for this user. ",
"smithy.api#required": {}
}
},
"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",

"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for this product user. "
}
},
"StatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status message for a product for this user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory
that contains the user information for the product subscription. "
}
},
"SubscriptionStartDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The start date of a subscription. "
}
},
"SubscriptionEndDate": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The end date of a subscription. "
}
}
},
"traits": {
"smithy.api#documentation": " A summary of the user-based subscription products for a specific
user. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ProductUserSummaryList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary"
}
},
"com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings": {
"type": "structure",
"members": {
"RdsSalCredentialsProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#CredentialsProvider",
"traits": {
"smithy.api#documentation": " The <code>CredentialsProvider</code> resource contains a

reference to \n\t\t\tthe credentials provider that's used for RDS license server user administration. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Server settings that are specific to a Remote Desktop Services (RDS) license server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProvider": {
"type":
"operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Registers an identity provider for user-based subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/RegisterIdentityProvider"

```
            },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderRequest": {
        "type": "structure",
        "members": {
            "IdentityProvider": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
                 "traits": {
                    "smithy.api#documentation": "<p>An object that specifies details for the identity provider to
register.</p>",
                    "smithy.api#required": {}
                }
            },
            "Product": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The name of the user-based subscription product.</p>\n
<p>Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code>\n
</p>",
                    "smithy.api#required": {}
                }
            },
            "Settings": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Settings",
                "traits": {
                    "smithy.api#documentation": "<p>The registered identity providers product related configuration
 \n\t\t\tsettings such as the subnets to provision VPC endpoints.</p>"
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The tags that apply to the identity provider's registration.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#RegisterIdentityProviderResponse": {
        "type": "structure",
        "members": {
            "IdentityProviderSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
```

"traits": {
"smithy.api#documentation": " Metadata that describes the results of an identity provider operation. ",

"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,510})/([a-z0-9-\\.]{1,510})$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The resource couldn't be found. ",
"smithy.api#error": "client",
"smithy.api#httpError": 404
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecretsManagerCredentialsProvider": {
"type": "structure",
"members": {
"SecretId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The ID of the Secrets Manager secret that contains credentials. ",
"smithy.api#length": {
"min": 1
}
}
}
},
"traits": {

"smithy.api#documentation": " Contains a credentials secret that's stored in Secrets Manager. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#SecurityGroup": {
"type": "string",
"traits": {
"smithy.api#length": {
"min": 5,
"max": 200
},
"smithy.api#pattern": "^sg-(([0-9a-z]{8})|([0-9a-z]{17}))$"
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerEndpoint": {
"type": "structure",
"members": {
"Endpoint": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The network address of the endpoint. "
}
}
},
"traits": {
"smithy.api#documentation": " A network endpoint through which you can access one or more servers. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerSettings": {
"type": "union",
"members": {
"RdsSalSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#RdsSalSettings",
"traits": {
"smithy.api#documentation": " The <code>RdsSalSettings</code> resource contains settings to configure \n\t\t\ta specific Remote Desktop Services (RDS) license server. "
}
}
},
"traits": {
"smithy.api#documentation": " Contains settings for a specific server. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServerType": {
"type": "string",
"traits": {
"smithy.api#enum": [
{

"name": "RDS_SAL",
"value": "RDS_SAL",
"documentation": ""
}
]
}
},
"com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation":
" The request failed because a service quota is exceeded. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerusersubscriptions#Settings": {
"type": "structure",
"members": {
"Subnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The subnets defined for the registered identity provider. ",
"smithy.api#length": {
"min": 1
},
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound
TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoint for activation
servers. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " The registered identity providers product related configuration settings
such as the\n\t\t\tsubnets to provision VPC endpoints, and the security group ID that is associated with the
VPC\n\t\t\tendpoints. The security group should permit inbound TCP port 1688 communication from
resources\n\t\t\tin the VPC. "

```
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscription": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse"
         },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
             }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Starts a product subscription for a user with the specified identity
provider.</p>\n        <note>\n            <p>Your estimated bill for charges on the number of users and related costs
will take 48\n\t\t\thours to appear for billing periods that haven't closed (marked as <b>Pending</b> billing status)
in Amazon Web Services Billing. For more information, see <a
href=\"https://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/invoice.html\">Viewing your\n\t\t\t\tmonthly
charges</a> in the <i>Amazon Web Services Billing User Guide</i>.</p>\n        </note>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/user/StartProductSubscription"
            }
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionRequest": {
```

"type":
"structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider of the user. ",
"smithy.api#required": {}
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. ",
"smithy.api#required": {}
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n
Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code>
| <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code>\n
",
"smithy.api#required": {}
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user
for whom to start the product \n\t\t\tsubscription. "
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The tags that apply to the product subscription. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StartProductSubscriptionResponse":
{
"type": "structure",

"members": {
"ProductUserSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
"traits": {
"smithy.api#documentation": " Metadata that describes the start product subscription operation. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscription": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ConflictException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ServiceQuotaExceededException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],

"traits": {
"smithy.api#documentation": " Stops a product subscription for a user with the specified identity provider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/user/StopProductSubscription"
}
}
},
"com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionRequest": {
"type": "structure",
"members": {
"Username": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The user name from the identity provider for the user. "
}
},
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider",
"traits": {
"smithy.api#documentation": " An object that specifies details for the identity provider. "
}
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code>\n "
}
},
"ProductUserArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the product user. "
}
},
"Domain": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The domain name of the Active Directory that contains the user for whom to stop the product \n\t\t\tsubscription. "
}
}

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StopProductSubscriptionResponse": {
        "type": "structure",
        "members": {
            "ProductUserSummary": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ProductUserSummary",
                "traits": {
                    "smithy.api#documentation": "<p>Metadata that describes the start product subscription
operation.</p>",
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#StringList": {
        "type": "list",
         "member": {
            "target": "smithy.api#String"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnet": {
        "type": "string",
        "traits": {
            "smithy.api#pattern": "^subnet-[a-z0-9]{8,17}"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#Subnets": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#Subnet"
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#TagKeyList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        },
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
```

```
            },
            "smithy.api#sensitive": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#TagResource": {

    "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest"
        },
        "output": {
            "target": "com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Adds tags to a resource.</p>",
            "smithy.api#http": {
                "method": "PUT",
                "uri": "/tags/{ResourceArn}"
            },

    "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerusersubscriptions#TagResourceRequest": {
        "type": "structure",
        "members": {
            "ResourceArn": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource that you want
to tag.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            },
            "Tags": {
                "target": "com.amazonaws.licensemanagerusersubscriptions#Tags",
```

"traits": {
"smithy.api#documentation": " The tags to apply to the specified resource. ",
"smithy.api#required": {}
}
}
},
"traits":
{
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#TagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#Tags": {
"type": "map",
"key": {
"target": "smithy.api#String"
},
"value": {
"target": "smithy.api#String"
},
"traits": {
"smithy.api#length": {
"min": 0,
"max": 50
},
"smithy.api#sensitive": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#ThrottlingException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}

},
"traits": {
"smithy.api#documentation": " The request was denied because of request throttling. Retry the request. ",
"smithy.api#error": "client"
}
},

"com.amazonaws.licensemanagerusersubscriptions#UntagResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Removes
tags from a resource. ",
"smithy.api#http": {
"method": "DELETE",
"uri": "/tags/{ResourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceRequest": {
"type": "structure",
"members": {
"ResourceArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#ResourceArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the resource that you want
to remove tags from. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"TagKeys": {
"target": "com.amazonaws.licensemanagerusersubscriptions#TagKeyList",
"traits": {

"smithy.api#documentation": " The tag keys to remove from the resource. ",
"smithy.api#httpQuery": "tagKeys",
"smithy.api#required": {}
}
}
},

"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse"
},

"errors": [
{
"target": "com.amazonaws.licensemanagerusersubscriptions#AccessDeniedException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerusersubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates additional product configuration settings for the registered identity\n\t\t\tprovider. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/identity-provider/UpdateIdentityProviderSettings"
},
"smithy.api#idempotent": {}

}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsRequest": {
"type": "structure",

"members": {
"IdentityProvider": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProvider"
},
"Product": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the user-based subscription product. \n
Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> |
<code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code>\n
"
}
},
"IdentityProviderArn": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Arn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the
identity provider to update. "
}
},
"UpdateSettings": {
"target": "com.amazonaws.licensemanagerusersubscriptions#UpdateSettings",
"traits": {
"smithy.api#documentation": " Updates the registered identity providers product related
configuration settings. You can\n\t\t\tupdate any combination of settings in a single operation such as the: \n
\n \n Subnets which you want to add to provision VPC endpoints. \n \n
\n Subnets which you want to remove the VPC endpoints from. \n \n
\n Security group ID which permits traffic to the VPC endpoints. \n \n ",
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateIdentityProviderSettingsResponse": {
"type": "structure",
"members": {
"IdentityProviderSummary": {
"target": "com.amazonaws.licensemanagerusersubscriptions#IdentityProviderSummary",
"traits": {
"smithy.api#required": {}
}
}
},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerusersubscriptions#UpdateSettings": {
"type": "structure",
"members": {
"AddSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets in which License Manager will create a VPC endpoint
for products that\n\t\t\trequire connectivity to activation servers. ",
"smithy.api#required": {}
}
},
"RemoveSubnets": {
"target": "com.amazonaws.licensemanagerusersubscriptions#Subnets",
"traits": {
"smithy.api#documentation": " The ID of one or more subnets to remove. ",
"smithy.api#required": {}
}
},
"SecurityGroupId": {
"target": "com.amazonaws.licensemanagerusersubscriptions#SecurityGroup",
"traits": {
"smithy.api#documentation": " A security group ID that allows inbound TCP port 1688 communication between resources in\n\t\t\tyour VPC and the VPC endpoints for activation servers. "
}
}
},
"traits": {
"smithy.api#documentation":
" Updates the registered identity providers product related configuration settings such as\n\t\t\tthe subnets to provision VPC endpoints. "
}
},
"com.amazonaws.licensemanagerusersubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " A parameter is not valid. ",
"smithy.api#error": "client"
}
}

```
   }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Creates a license.
func (c *Client) CreateLicense(ctx context.Context, params *CreateLicenseInput, optFns ...func(*Options))
(*CreateLicenseOutput, error) {
 if params == nil {
  params = &CreateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CreateLicense", params, optFns,
c.addOperationCreateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CreateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CreateLicenseInput struct {

 // License beneficiary.
 //
 // This member is required.
 Beneficiary *string

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 // the request.
 //
 //
 This member is required.
 ClientToken *string

 // Configuration for consumption of the license. Choose a provisional
```

```
// configuration for workloads running with continuous connectivity. Choose a
// borrow configuration for workloads with offline usage.
//
// This member is required.
ConsumptionConfiguration *types.ConsumptionConfiguration

// License entitlements.
//
// This member is required.
Entitlements []types.Entitlement

// Home Region for the license.
//
// This member is required.
HomeRegion *string

// License issuer.
//
// This member is required.
Issuer *types.Issuer

// License name.
//
// This member is required.
LicenseName *string

// Product name.
//
// This member is required.
ProductName *string

// Product SKU.
//
// This member is required.
ProductSKU *string

// Date and time range during which the license is valid, in ISO8601-UTC format.
//
// This member is required.
Validity *types.DatetimeRange

// Information about
the license.
LicenseMetadata []types.Metadata

noSmithyDocumentSerde
}
```

```
type CreateLicenseOutput struct {

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string

 // License status.
 Status types.LicenseStatus

 // License version.
 Version *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCreateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCreateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CreateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if
 err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err
 = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpCreateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCreateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack);
 err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCreateLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CreateLicense",
 }
}
DisassociateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
```

```
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks in the specified license. Check in a license when it is no longer in use.
func (c *Client) CheckInLicense(ctx context.Context, params *CheckInLicenseInput, optFns ...func(*Options))
(*CheckInLicenseOutput, error) {
 if params == nil {
  params = &CheckInLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckInLicense", params, optFns,
c.addOperationCheckInLicenseMiddlewares)
 if err != nil {
  return nil, err
```

```
 }

 out := result.(*CheckInLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckInLicenseInput struct {

 // License consumption token.
 //
 // This member is required.
 LicenseConsumptionToken *string

 // License beneficiary.
 Beneficiary *string

 noSmithyDocumentSerde
}

type
 CheckInLicenseOutput struct {
 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckInLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckInLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckInLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
```

```
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if
err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
}
if err = addUserAgentRetryMode(stack, options); err != nil {
 return err
}
if
err = addOpCheckInLicenseValidationMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckInLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckInLicense(region string) *awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "CheckInLicense",
 }
}
CheckoutBorrowLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
```

```
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Gets detailed information about the specified license.
func (c *Client) GetLicense(ctx context.Context, params *GetLicenseInput, optFns ...func(*Options))
(*GetLicenseOutput, error) {
 if params == nil {
  params = &GetLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "GetLicense", params, optFns,
c.addOperationGetLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*GetLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type GetLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // License version.
 Version *string

 noSmithyDocumentSerde
}

type
 GetLicenseOutput struct {

 // License details.
 License *types.License

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationGetLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
```

```
err = stack.Serialize.Add(&awsAwsjson11_serializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpGetLicense{}, middleware.After)
if err != nil {
 return err
}
if err := addProtocolFinalizerMiddlewares(stack, options, "GetLicense"); err != nil {
 return fmt.Errorf("add protocol finalizers: %v", err)
}

if err = addlegacyEndpointContextSetter(stack, options); err != nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err
!= nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
```

```
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options);
 err != nil {
  return err
 }
 if err = addOpGetLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opGetLicense(options.Region), middleware.Before);
err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
```

```
 return nil
}

func newServiceMetadataMiddleware_opGetLicense(region string) *awsmiddleware.RegisterServiceMetadata
 {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:        region,
  ServiceID:     ServiceID,
  OperationName: "GetLicense",
 }
}
// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Checks out the specified license for offline use.
func (c *Client) CheckoutBorrowLicense(ctx context.Context, params *CheckoutBorrowLicenseInput, optFns
...func(*Options)) (*CheckoutBorrowLicenseOutput, error) {
 if params == nil {
  params = &CheckoutBorrowLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "CheckoutBorrowLicense", params, optFns,
c.addOperationCheckoutBorrowLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*CheckoutBorrowLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type CheckoutBorrowLicenseInput struct {

 // Unique, case-sensitive identifier that you provide to ensure the idempotency of
 //
 the request.
 //
```

```
 // This member is required.
 ClientToken *string

 // Digital signature method. The possible value is JSON Web Signature (JWS)
 // algorithm PS384. For more information, see [RFC 7518 Digital Signature with RSASSA-PSS].
 //
 // [RFC 7518 Digital Signature with RSASSA-PSS]: https://tools.ietf.org/html/rfc7518#section-3.5
 //
 // This member is required.
 DigitalSignatureMethod types.DigitalSignatureMethod

 // License entitlements. Partial checkouts are not supported.
 //
 // This member is required.
 Entitlements []types.EntitlementData

 // Amazon Resource Name (ARN) of the license. The license must use the borrow
 // consumption configuration.
 //
 // This member is required.
 LicenseArn *string

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Node ID.
 NodeId *string

 noSmithyDocumentSerde
}

type CheckoutBorrowLicenseOutput struct {

 // Information about constraints.
 CheckoutMetadata []types.Metadata

 // Allowed license entitlements.
 EntitlementsAllowed
 []types.EntitlementData

 // Date and time at which the license checkout expires.
 Expiration *string

 // Date and time at which the license checkout is issued.
 IssuedAt *string

 // Amazon Resource Name (ARN) of the license.
 LicenseArn *string
```

```
 // License consumption token.
 LicenseConsumptionToken *string

 // Node ID.
 NodeId *string

 // Signed token.
 SignedToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationCheckoutBorrowLicenseMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpCheckoutBorrowLicense{}, middleware.After)
 if err != nil {
  return
 err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "CheckoutBorrowLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
```

```
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack);
 err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpCheckoutBorrowLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opCheckoutBorrowLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
```

```
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options);
 err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opCheckoutBorrowLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "CheckoutBorrowLicense",
 }
}
GetLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
```

ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
ListReceivedLicenses
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry

```
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger
AWS SDK for Go
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// Code generated by smithy-go-codegen DO NOT EDIT.

package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Deletes the specified license.
func (c *Client) DeleteLicense(ctx context.Context, params *DeleteLicenseInput, optFns ...func(*Options))
(*DeleteLicenseOutput, error) {
 if params == nil {
  params = &DeleteLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "DeleteLicense", params, optFns,
c.addOperationDeleteLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*DeleteLicenseOutput)
```

```
 out.ResultMetadata = metadata
 return out, nil
}

type DeleteLicenseInput struct {

 // Amazon Resource Name (ARN) of the license.
 //
 // This member is required.
 LicenseArn *string

 // Current version of the license.
 //
 // This member is required.
 SourceVersion
 *string

 noSmithyDocumentSerde
}

type DeleteLicenseOutput struct {

 // Date when the license is deleted.
 DeletionDate *string

 // License status.
 Status types.LicenseDeletionStatus

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationDeleteLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpDeleteLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "DeleteLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
```

```
}

if err = addlegacyEndpointContextSetter(stack, options); err !=
nil {
 return err
}
if err = addSetLoggerMiddleware(stack, options); err != nil {
 return err
}
if err = addClientRequestID(stack); err != nil {
 return err
}
if err = addComputeContentLength(stack); err != nil {
 return err
}
if err = addResolveEndpointMiddleware(stack, options); err != nil {
 return err
}
if err = addComputePayloadSHA256(stack); err != nil {
 return err
}
if err = addRetry(stack, options); err != nil {
 return err
}
if err = addRawResponseToMetadata(stack); err != nil {
 return err
}
if err = addRecordResponseTiming(stack); err != nil {
 return err
}
if err = addSpanRetryLoop(stack, options); err != nil {
 return err
}
if err = addClientUserAgent(stack, options); err != nil {
 return err
}
if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
 return err
}
if err = addSetLegacyContextSigningOptionsMiddleware(stack); err
!= nil {
 return err
}
if err = addTimeOffsetBuild(stack, c); err != nil {
 return err
```

```
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpDeleteLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opDeleteLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if
 err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opDeleteLicense(region string) *awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "DeleteLicense",
 }
```

}
AssociateLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
{
"smithy": "2.0",
"shapes": {
"com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger": {
"type": "integer"
},

"com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong": {
"type": "long"
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProvider": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions \n\t\t\tregistered to your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/DeregisterSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the subscription provider resource to deregister. ",
"smithy.api#required": {}
}
}

```
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#DeregisterSubscriptionProviderResponse": {
        "type": "structure",
        "members": {},
        "traits": {
            "smithy.api#output": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#Filter": {
        "type": "structure",
        "members": {
            "Name": {
                "target": "smithy.api#String",
                "traits": {
                    "smithy.api#documentation": "<p>The type of name to filter by.</p>"
                }
            },
            "Values": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
                "traits": {
                    "smithy.api#documentation": "<p>One or more values for the name to filter by.</p>"
                }
            },
            "Operator": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Operator",
                "traits": {
                    "smithy.api#documentation": "<p>An operator for filtering results.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#documentation": "<p>A filter object that is used to return more specific results from a describe
operation.\n      Filters can be used to match a set of resources by specific criteria.</p>"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList": {
        "type":
 "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Filter"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider": {
        "type": "operation",
```

"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest"
},
"output": {
"target":
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Get details for a Bring Your Own License (BYOL) subscription that's
registered to your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetRegisteredSubscriptionProvider"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderRequest": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation":
" The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},

"com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. "
}
},
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",

"traits": {
"smithy.api#documentation": " The subscription provider for the BYOL registration resource specified \n\t\t\tin the request. "
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL \n\t\t\tregistration resource specified in the request. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " The status of the Linux subscription provider access token from the last \n\t\t\tsuccessful subscription data request. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The detailed message from your subscription provider token status. "
}
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"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time License Manager retrieved subscription details \n\t\t\tfrom your registered third-party Linux subscription provider. "
}
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"traits": {

"smithy.api#output": {}
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings": {
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest"
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"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse"
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"errors": [
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
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{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
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"traits": {
"smithy.api#documentation": " Lists the Linux subscriptions service settings for your account. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/GetServiceSettings"

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"smithy.api#idempotent": {}
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsRequest": {
"type": "structure",
"members": {}
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"com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettingsResponse": {
"type": "structure",
"members": {
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
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"LinuxSubscriptionsDiscoverySettings": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " Lists
the settings defined for Linux subscriptions discovery. The settings include if\n Organizations integration has
been enabled, and which Regions data will be aggregated from. "
}
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"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being
applied. "
}
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"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings
current status. "
}
},
"HomeRegions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated
data for Linux\n subscriptions. "
}
}
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#Instance": {
"type": "structure",
"members": {
"AmiId": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The AMI ID used to launch the instance. "
}
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"InstanceID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The instance ID of the resource. "
}
},
"InstanceType": {
"target": "smithy.api#String",
"traits":

{
"smithy.api#documentation": " The instance type of the resource. "
}
},
"AccountID": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The account ID which owns the instance. "
}
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"Status": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The status of the instance. "
}
},
"Region": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Region the instance is running in. "
}
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"UsageOperation": {
"target": "smithy.api#String",

"traits": {
"smithy.api#documentation": " The usage operation of the instance. For more information, see For more information, see\n Usage\n operation values in the License Manager User Guide. "
}
},
"ProductCode": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList",
"traits": {
"smithy.api#documentation": " The product code for the instance. For more information, see Usage\n operation values in the License Manager User Guide . "
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},
"LastUpdatedTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The time in which the last discovery updated the instance details. "
}
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"SubscriptionName": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The name of the license subscription that the instance uses. "
}
},
"OsVersion": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The operating system software version that runs on your instance. "
}
},
"SubscriptionProviderCreateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp when you registered the third-party Linux subscription \n\t\t\tprovider for the subscription that the instance uses. "
}
},
"SubscriptionProviderUpdateTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that the instance synced with the registered \n\t\t\tthird-party Linux subscription provider. "
}
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"DualSubscription": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " Indicates that you have two different license subscriptions for \n\t\t\tthe same software on your instance. "
}
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"RegisteredWithSubscriptionProvider": {
"target": "smithy.api#String",
"traits": {

"smithy.api#documentation": " Indicates that your instance uses a BYOL license subscription from \n\t\t\ta third-party Linux subscription provider that you've registered with License Manager. "
}
}
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"traits": {
"smithy.api#documentation": " Details discovered information about a running instance using Linux subscriptions. "
}
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"com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList": {

"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Instance"
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"com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation":
" An exception occurred with the service. ",
"smithy.api#error": "server"
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"com.amazonaws.licensemanagerlinuxsubscriptions#LicenseManagerLinuxSubscriptions": {
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"operations": [
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetRegisteredSubscriptionProvider"
},
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#GetServiceSettings"
},
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances"
},
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions"
},
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders"
},
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource"
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"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider"
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{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource"

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          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource"
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          "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings"
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           "arnNamespace": "license-manager-linux-subscriptions",
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        "aws.protocols#restJson1": {},
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            "x-amz-user-agent",
            "x-amzn-platform-id",
            "x-amzn-trace-id"
          ],
          "additionalExposedHeaders": [
            "x-amzn-errortype",
            "x-amzn-requestid",
            "x-amzn-trace-id"
          ]
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        "smithy.api#documentation": "<p>With License Manager,
you can discover and track your commercial Linux subscriptions on running\n      Amazon EC2 instances.</p>",
        "smithy.api#title": "AWS License Manager Linux Subscriptions",
        "smithy.rules#endpointRuleSet": {
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              "required": false,
              "documentation": "The AWS region used to dispatch the request.",
              "type": "String"
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            "UseDualStack": {
              "builtIn": "AWS::UseDualStack",
              "required": true,
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"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"ref": "Endpoint"
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"params": {
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"params": {
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    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [
            {
                "name": "Enabled",
                "value": "Enabled",
                "documentation": "Enabled LinuxSubscriptionsDiscovery"

 },
            {
                "name": "Disabled",
                "value": "Disabled",
                "documentation": "Disabled LinuxSubscriptionsDiscovery"
            }
        ]
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings": {
    "type": "structure",
    "members": {
        "SourceRegions": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
```

"traits": {
"smithy.api#documentation": " The Regions in which to discover data for Linux subscriptions. ",
"smithy.api#required": {}
}
},
"OrganizationIntegration": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration",
"traits": {
"smithy.api#documentation": " Details if you have enabled resource discovery across your accounts in Organizations. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#documentation": " Lists the settings defined for discovering Linux subscriptions. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstances": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Lists the running Amazon EC2 instances that were discovered with commercial Linux\n subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/ListLinuxSubscriptionInstances"
},
"smithy.api#idempotent": {},

"smithy.api#paginated": {
"inputToken": "NextToken",
"outputToken": "NextToken",
"pageSize": "MaxResults",
"items": "Instances"
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesRequest":
{
"type": "structure",
"members": {
"Filters": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
"traits": {
"smithy.api#documentation": " An array of structures that you can use to filter the results by your specified criteria. \n \tFor example, you can specify <code>Region</code> in the <code>Name</code>, with the \n \t<code>contains</code> operator to list all subscriptions that match a partial string in the \n \t<code>Value</code>, such as <code>us-west</code>. \n For each filter, you can specify one of the following values for the <code>Name</code> key \n \tto streamline results: \n \n \n \n <code>AccountID</code>\n \n \n \n \n <code>AmiID</code>\n \n \n \n \n <code>DualSubscription</code>\n \n \n \n \n <code>InstanceID</code>\n \n \n \n \n <code>InstanceType</code>\n \n \n \n \n <code>ProductCode</code>\n \n \n \n \n <code>Region</code>\n \n \n \n \n <code>Status</code>\n \n \n \n \n <code>UsageOperation</code>\n \n \n \n For each filter, you can use one of the following <code>Operator</code>
values to \n \t\tdefine the behavior of the filter: \n \n \n \n <code>contains</code>\n \n \n \n \n <code>equals</code>\n \n \n \n \n <code>Notequal</code>\n \n \n "
}
},
"MaxResults": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
"traits": {
"smithy.api#documentation": " The maximum items to return in a request. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to
start paginating. This \n\tis the nextToken from a previously truncated response. ",
"smithy.api#length": {

"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionInstancesResponse": {
"type": "structure",
"members": {
"Instances": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InstanceList",
"traits": {
"smithy.api#documentation": " An array that contains instance objects. "
}
},
"NextToken": {

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptions": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"

```
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Lists the Linux subscriptions that have been discovered. If you have
linked your\n      organization, the returned results will include data aggregated across your accounts in\n
Organizations.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListLinuxSubscriptions"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",

   "items": "Subscriptions"
            }
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsRequest": {
        "type": "structure",
        "members": {
            "Filters": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#FilterList",
                "traits": {
                    "smithy.api#documentation": "<p>An array of structures that you can use to filter the results to those
that match one or\n      more sets of key-value pairs that you specify. For example, you can filter by the name of\n
 <code>Subscription</code> with an optional operator to see subscriptions that match,\n      partially match, or don't
match a certain subscription's name.</p>\n         <p>The valid names for this filter are:</p>\n         <ul>\n
<li>\n              <p>\n                <code>Subscription</code>\n              </p>\n           </li>\n         </ul>\n
<p>The
 valid Operators for this filter are:</p>\n         <ul>\n           <li>\n              <p>\n
<code>contains</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>equals</code>\n              </p>\n           </li>\n           <li>\n              <p>\n
<code>Notequal</code>\n              </p>\n           </li>\n         </ul>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum items to return in a request.</p>"
                }
            },
            "NextToken": {
                "target": "smithy.api#String",
                "traits": {
```

"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis the nextToken from a previously truncated response. ",
"smithy.api#length": {
"min": 1,
"max": 16384
}
}
}
},
"traits": {
"smithy.api#documentation": "NextToken length limit is half of ddb accepted limit.\nIncrease this limit if parameters in request increases."
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListLinuxSubscriptionsResponse": {
"type": "structure",
"members": {
"Subscriptions": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList",
"traits": {
"smithy.api#documentation": " An array that contains subscription objects. "
}
},
"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProviders": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"

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            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>List Bring Your Own License (BYOL) subscription registration
resources for your account.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/ListRegisteredSubscriptionProviders"
            },
            "smithy.api#idempotent": {},
            "smithy.api#paginated": {
                "inputToken": "NextToken",
                "outputToken": "NextToken",
                "pageSize": "MaxResults",
                "items": "RegisteredSubscriptionProviders"
            }
        }

    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSources": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList",
                "traits": {
                    "smithy.api#documentation": "<p>To filter your results, specify which subscription providers to
return \n\t\t\tin the list.</p>"
                }
            },
            "MaxResults": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxInteger",
                "traits": {
                    "smithy.api#documentation": "<p>The maximum items to return in a request.</p>",
                    "smithy.api#range": {
                        "min": 1,
                        "max": 100
                    }
                }

  },
            "NextToken": {
```

"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " A token to specify where to start paginating. This \n\tis the nextToken from a previously truncated response. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListRegisteredSubscriptionProvidersResponse": {
"type": "structure",
"members": {
"RegisteredSubscriptionProviders": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList",
"traits": {
"smithy.api#documentation": " The list of BYOL registration resources that fit the criteria \n\t\t\tyou specified in the request. "
}
},

"NextToken": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The next token used for paginated responses. When this \n\tfield isn't empty, there are additional elements that the service hasn't \n\tincluded in this request. Use this token with the next request to retrieve \n\tadditional objects. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResource": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse"
},
"errors": [
{

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},

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            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>List the metadata tags that are assigned to the \n\t\t\tspecified Amazon
Web Services resource.</p>",
            "smithy.api#http": {
                "method": "GET",
                "uri": "/tags/{resourceArn}"
            },
            "smithy.api#readonly": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceRequest": {
        "type": "structure",
        "members": {
            "resourceArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
                 "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the resource for which to
list metadata tags.</p>",
                    "smithy.api#httpLabel": {},
                    "smithy.api#required": {}
                }
            }
        },
        "traits": {
            "smithy.api#input": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#ListTagsForResourceResponse": {
        "type": "structure",
        "members": {
            "tags": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
                "traits": {
                    "smithy.api#documentation": "<p>The metadata tags for the requested resource.</p>"
                }
            }
        },
        "traits": {
            "smithy.api#output": {}
         }
    },
```

"com.amazonaws.licensemanagerlinuxsubscriptions#Operator": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "EQUAL",
"value": "Equal",
"documentation": "Equal operator"
},
{
"name": "NOT_EQUAL",
"value": "NotEqual",
"documentation": "Not equal operator"
},
{
"name": "CONTAINS",
"value": "Contains",
"documentation": "Contains operator"
}
],
"smithy.api#length": {
"min": 1,
"max": 20
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#OrganizationIntegration": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "Enabled",
"value": "Enabled",
"documentation": "Enabled OrganizationIntegration"
},
{
"name": "Disabled",
"value": "Disabled",
"documentation": "Disabled OrganizationIntegration"
}
]
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ProductCodeList": {
"type": "list",
"member": {
"target": "smithy.api#String"

```
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProvider": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest"
         },
        "output": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse"
        },
        "errors": [
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
            },
            {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
            }
        ],
        "traits": {
            "smithy.api#documentation": "<p>Register the supported third-party subscription provider for your Bring
Your Own License (BYOL) subscription.</p>",
            "smithy.api#http": {
                "code": 200,
                "method": "POST",
                "uri": "/subscription/RegisterSubscriptionProvider"

           },
            "smithy.api#idempotent": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderRequest": {
        "type": "structure",
        "members": {
            "SubscriptionProviderSource": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
                "traits": {
                    "smithy.api#documentation": "<p>The supported Linux subscription provider to register.</p>",
                    "smithy.api#required": {}
                }
            },
            "SecretArn": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
                "traits": {
                    "smithy.api#documentation": "<p>The Amazon Resource Name (ARN) of the secret where you've
stored your subscription provider's access token. For \n\t\t\tRHEL subscriptions managed through the
```

Red Hat Subscription Manager (RHSM), the secret contains \n\t\t\tyour Red Hat Offline token. ",
"smithy.api#required": {}
}
},
"Tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to your registered Linux subscription provider \n\t\t\tresource. "
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisterSubscriptionProviderResponse": {
"type": "structure",
"members": {
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " The Linux subscription provider that you registered. "
}
},
"SubscriptionProviderArn": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " Indicates the status of the registration action for the Linux subscription provider \n\t\t\tthat you requested. "
}
}
},
"traits": {
"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider": {
"type": "structure",

"members": {
"SubscriptionProviderArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
}
},
"SubscriptionProviderSource": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource",
"traits": {
"smithy.api#documentation": " A supported third-party Linux subscription provider. License Manager currently supports \n\t\t\tRed Hat subscriptions. "
}
},
"SecretArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider \n\t\t\taccess token. For RHEL account subscriptions, this is the offline token. "
}
},
"SubscriptionProviderStatus": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus",
"traits": {
"smithy.api#documentation": " Indicates the status of your registered Linux subscription provider access token \n\t\t\tfrom the last time License Manager retrieved subscription data. For RHEL account subscriptions, \n\t\t\tthis is the status of the offline token. "
}
},
"SubscriptionProviderStatusMessage": {
"target": "smithy.api#String",
"traits":
{
"smithy.api#documentation": " A detailed message that's associated with your BYOL subscription \n\t\t\tprovider token status. "
}
},
"LastSuccessfulDataRetrievalTime": {
"target": "smithy.api#String",
"traits": {
"smithy.api#documentation": " The timestamp from the last time that License Manager accessed third-party subscription data \n\t\t\tfor your account from your registered Linux subscription provider. "
}
}
},
"traits": {

"smithy.api#documentation": " A third-party provider for operating system (OS) platform software and license \n\t\t\tsubscriptions, such as Red Hat. When you register a third-party Linux subscription \n\t\t\tprovider, License Manager can get subscription data from the registered provider. "
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProviderList": {
"type": "list",
"member": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#RegisteredSubscriptionProvider"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " Unable to find the requested Amazon Web Services resource. ",
"smithy.api#error": "client"
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SecretArn": {
"type": "string",
"traits": {
"smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"

}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Status": {
"type": "string",
"traits": {
"smithy.api#enum": [
{
"name": "InProgress",
"value": "InProgress",
"documentation": "InProgress status"
},
{
"name": "Completed",
"value": "Completed",
"documentation": "Completed status"
},
{
"name": "Successful",

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                "value": "Successful",
                "documentation": "Successful status"
            },
            {
                "name": "Failed",
                "value": "Failed",
                "documentation": "Failed status"
            }
        ]
    }
},

"com.amazonaws.licensemanagerlinuxsubscriptions#StringList": {
    "type": "list",
    "member": {
        "target": "smithy.api#String",
        "traits": {
            "smithy.api#length": {
                "min": 1,
                "max": 100
            }
        }
    },
    "traits": {
        "smithy.api#length": {
            "min": 1,
            "max": 100
        },
        "smithy.api#uniqueItems": {}
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#StringMap": {
    "type": "map",
    "key": {
        "target": "smithy.api#String"
    },
    "value": {
        "target": "smithy.api#String"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#Subscription": {
    "type": "structure",
    "members": {
        "Name":
{
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The name of the subscription.</p>"
```

```
            }
        },
        "Type": {
            "target": "smithy.api#String",
            "traits": {
                "smithy.api#documentation": "<p>The type of subscription. The type can be subscription-included
with Amazon EC2, Bring Your Own\n      Subscription model (BYOS), or from the Amazon Web Services
Marketplace. Certain subscriptions may use licensing from the\n      Amazon Web Services Marketplace as well as
OS licensing from Amazon EC2 or BYOS.</p>"
            }
        },
        "InstanceCount": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#BoxLong",
            "traits": {
                "smithy.api#documentation": "<p>The total amount of running instances using this
 subscription.</p>"
            }
        }
    },
    "traits": {
        "smithy.api#documentation": "<p>An object which details a discovered Linux subscription.</p>"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionList": {
    "type": "list",
    "member": {
        "target": "com.amazonaws.licensemanagerlinuxsubscriptions#Subscription"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn": {
    "type": "string",
    "traits": {
        "smithy.api#pattern": "^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-
9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
    }
},
"com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource": {
    "type": "string",
    "traits": {
        "smithy.api#enum": [

 {
                "name": "RedHat",
                "value": "RedHat",
                "documentation": "RedHat subscription provider namespace"
            }
        ]
    }
```

```
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSourceList": {
        "type": "list",
        "member": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderSource"
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderStatus": {
        "type": "string",
        "traits": {
            "smithy.api#enum": [
                {
                    "name": "ACTIVE",
                    "value": "ACTIVE",
                    "documentation": "ACTIVE status"
                },
                {
                    "name": "INVALID",
                    "value": "INVALID",

"documentation": "INVALID status"
                },
                {
                    "name": "PENDING",
                    "value": "PENDING",
                    "documentation": "PENDING status"
                }
            ]
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList": {
        "type": "list",
        "member": {
            "target": "smithy.api#String"
        },
        "traits": {
            "smithy.api#length": {
                "min": 0,
                "max": 50
            },
            "smithy.api#sensitive": {}
        }
    },
    "com.amazonaws.licensemanagerlinuxsubscriptions#TagResource": {
        "type": "operation",
        "input": {
            "target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest"
        },
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"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse"
},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Add metadata tags to the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "PUT",
"uri": "/tags/{resourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceRequest": {
"type": "structure",
"members":
{
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified \n\t\t\tmetadata tags. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tags": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Tags",
"traits": {
"smithy.api#documentation": " The metadata tags to assign to the Amazon Web Services resource. Tags are \n\t\t\tformatted as key value pairs. ",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}

```
            }

        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#TagResourceResponse": {
            "type": "structure",
            "members": {},
            "traits": {
                "smithy.api#output": {}
            }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#Tags": {
            "type": "map",
            "key": {
                "target": "smithy.api#String"
            },
            "value": {
                "target": "smithy.api#String"
            },
            "traits": {
                "smithy.api#length": {
                    "min": 0,
                    "max": 50
                },
                "smithy.api#sensitive": {}
            }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException": {
            "type": "structure",
            "members": {
                "message": {
                    "target": "smithy.api#String"
                }
            },
            "traits": {
                "smithy.api#documentation":
"<p>The request was denied due to request throttling.</p>",
                "smithy.api#error": "client"
            }
        },
        "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResource": {
            "type": "operation",
            "input": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest"
            },
            "output": {
                "target": "com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse"
            },
            "errors": [
```

{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ResourceNotFoundException"
}
],
"traits": {
"smithy.api#documentation": " Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"smithy.api#http": {
"method": "DELETE",
"uri": "/tags/{resourceArn}"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceRequest": {
"type": "structure",
"members": {
"resourceArn": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#SubscriptionProviderArn",
"traits": {
"smithy.api#documentation": " The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. ",
"smithy.api#httpLabel": {},
"smithy.api#required": {}
}
},
"tagKeys": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#TagKeyList",
"traits": {

"smithy.api#documentation": " A list of metadata tag keys to remove from the requested \n\t\t\tresource. ",
"smithy.api#httpQuery": "tagKeys",
"smithy.api#required": {}
}
}
},
"traits": {
"smithy.api#input": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UntagResourceResponse": {
"type": "structure",
"members": {},
"traits": {

"smithy.api#output": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettings": {
"type": "operation",
"input": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest"
},
"output": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse"

},
"errors": [
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#InternalServerException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ThrottlingException"
},
{
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException"
}
],
"traits": {
"smithy.api#documentation": " Updates the service settings for Linux subscriptions. ",
"smithy.api#http": {
"code": 200,
"method": "POST",
"uri": "/subscription/UpdateServiceSettings"
},
"smithy.api#idempotent": {}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsRequest": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Describes if the discovery of Linux subscriptions is enabled. ",
"smithy.api#required": {}
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated

from. ",
"smithy.api#required": {}
}
},
"AllowUpdate": {
"target":
"smithy.api#Boolean",
"traits": {
"smithy.api#documentation": " Describes if updates are allowed to the service settings for Linux subscriptions. If you\n allow updates, you can aggregate Linux subscription data in more than one home Region. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#UpdateServiceSettingsResponse": {
"type": "structure",
"members": {
"LinuxSubscriptionsDiscovery": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscovery",
"traits": {
"smithy.api#documentation": " Lists if discovery has been enabled for Linux subscriptions. "
}
},
"LinuxSubscriptionsDiscoverySettings": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#LinuxSubscriptionsDiscoverySettings",
"traits": {
"smithy.api#documentation": " The settings defined for Linux subscriptions discovery. The settings include if Organizations\n integration has been enabled, and which Regions data will be aggregated from. "
}
},
"Status": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#Status",
"traits": {
"smithy.api#documentation": " Indicates the status of Linux subscriptions settings being applied. "
}
},
"StatusMessage": {
"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringMap",
"traits": {
"smithy.api#documentation": " A message which details the Linux subscriptions service settings current status. "
}

},
"HomeRegions": {

"target": "com.amazonaws.licensemanagerlinuxsubscriptions#StringList",
"traits": {
"smithy.api#documentation": " The Region in which License Manager displays the aggregated data for Linux\n subscriptions. "
}
}
}
},
"com.amazonaws.licensemanagerlinuxsubscriptions#ValidationException": {
"type": "structure",
"members": {
"message": {
"target": "smithy.api#String"
}
},
"traits": {
"smithy.api#documentation": " The provided input is not valid. Try your request again. ",
"smithy.api#error": "client"
}
}
}
}

ListLicenses

Initialize stack step

spanInitializeStart

RegisterServiceMetadata

legacyEndpointContextSetter

SetLogger

spanInitializeEnd

Serialize stack step

spanBuildRequestStart

setOperationInput

ResolveEndpoint

OperationSerializer

Build stack step

ClientRequestID

ComputeContentLength

UserAgent

AddTimeOffsetMiddleware

RecursionDetection

spanBuildRequestEnd

Finalize stack step

spanRetryLoop

Retry

RetryMetricsHeader

ResolveAuthScheme

GetIdentity

ResolveEndpointV2

disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
CheckoutLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody

CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger
DeleteLicense
Initialize stack step
spanInitializeStart
RegisterServiceMetadata
legacyEndpointContextSetter
SetLogger
OperationInputValidation
spanInitializeEnd
Serialize stack step
spanBuildRequestStart
setOperationInput
ResolveEndpoint
OperationSerializer
Build stack step
ClientRequestID
ComputeContentLength
UserAgent
AddTimeOffsetMiddleware
RecursionDetection
spanBuildRequestEnd
Finalize stack step
spanRetryLoop
Retry
RetryMetricsHeader
ResolveAuthScheme
GetIdentity
ResolveEndpointV2
disableHTTPS
ComputePayloadHash
setLegacyContextSigningOptions
Signing
Deserialize stack step
AddRawResponseToMetadata
ErrorCloseResponseBody
CloseResponseBody
ResponseErrorWrapper
RequestIDRetriever
OperationDeserializer
AddTimeOffsetMiddleware
RecordResponseTiming
RequestResponseLogger

CreateLicense
 Initialize stack step
  spanInitializeStart
  RegisterServiceMetadata
  legacyEndpointContextSetter
  SetLogger
  OperationInputValidation
  spanInitializeEnd
 Serialize stack step
  spanBuildRequestStart
  setOperationInput
  ResolveEndpoint
  OperationSerializer
 Build stack step
  ClientRequestID
  ComputeContentLength
  UserAgent
  AddTimeOffsetMiddleware
  RecursionDetection
  spanBuildRequestEnd
 Finalize stack step
  spanRetryLoop
  Retry
  RetryMetricsHeader
  ResolveAuthScheme
  GetIdentity
  ResolveEndpointV2
  disableHTTPS
  ComputePayloadHash
  setLegacyContextSigningOptions
  Signing
 Deserialize stack step
  AddRawResponseToMetadata
  ErrorCloseResponseBody
  CloseResponseBody
  ResponseErrorWrapper
  RequestIDRetriever
  OperationDeserializer
  AddTimeOffsetMiddleware
  RecordResponseTiming
  RequestResponseLogger

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package grafana

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/grafana/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)

// Assigns a Grafana Enterprise license to a workspace. To upgrade, you must use
// ENTERPRISE for the licenseType , and pass in a valid Grafana Labs token for the
// grafanaToken . Upgrading to Grafana Enterprise incurs additional fees. For more
// information, see [Upgrade a workspace to Grafana Enterprise].
//
// [Upgrade a workspace to Grafana Enterprise]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-Grafana-Enterprise.html
func (c *Client) AssociateLicense(ctx context.Context, params *AssociateLicenseInput, optFns ...func(*Options))
(*AssociateLicenseOutput, error) {
 if params == nil {
  params = &AssociateLicenseInput{}
 }

 result, metadata, err := c.invokeOperation(ctx,

```
 "AssociateLicense", params, optFns, c.addOperationAssociateLicenseMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*AssociateLicenseOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type AssociateLicenseInput struct {

 // The type of license to associate with the workspace.
 //
 // Amazon Managed Grafana workspaces no longer support Grafana Enterprise free
 // trials.
 //
 // This member is required.
 LicenseType types.LicenseType

 // The ID of the workspace to associate the license with.
 //
 // This member is required.
 WorkspaceId *string

 // A token from Grafana Labs that ties your Amazon Web Services account with a
 // Grafana Labs account. For more information, see [Link your account with Grafana Labs].
 //
 // [Link your account with Grafana Labs]: https://docs.aws.amazon.com/grafana/latest/userguide/upgrade-to-
Grafana-Enterprise.html#AMG-workspace-register-enterprise
 GrafanaToken *string

 noSmithyDocumentSerde
}

type AssociateLicenseOutput
 struct {

 // A structure containing data about the workspace.
 //
 // This member is required.
 Workspace *types.WorkspaceDescription

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}
```

```
func (c *Client) addOperationAssociateLicenseMiddlewares(stack *middleware.Stack, options Options) (err error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsRestjson1_serializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsRestjson1_deserializeOpAssociateLicense{}, middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "AssociateLicense"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack,
 options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
```

```
 if err = addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack,
 c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = addOpAssociateLicenseValidationMiddleware(stack); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opAssociateLicense(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err != nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
```

```
 return err
 }
 if err = addSpanBuildRequestEnd(stack); err !=
 nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opAssociateLicense(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "AssociateLicense",
 }
}
```

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```
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package licensemanager

import (
 "context"
 "fmt"
 awsmiddleware "github.com/aws/aws-sdk-go-v2/aws/middleware"
 "github.com/aws/aws-sdk-go-v2/service/licensemanager/types"
 "github.com/aws/smithy-go/middleware"
 smithyhttp "github.com/aws/smithy-go/transport/http"
)
```

```
// Lists received licenses.
func (c *Client) ListReceivedLicenses(ctx context.Context, params *ListReceivedLicensesInput, optFns
...func(*Options)) (*ListReceivedLicensesOutput, error) {
 if params == nil {
  params = &ListReceivedLicensesInput{}
 }

 result, metadata, err := c.invokeOperation(ctx, "ListReceivedLicenses", params, optFns,
c.addOperationListReceivedLicensesMiddlewares)
 if err != nil {
  return nil, err
 }

 out := result.(*ListReceivedLicensesOutput)
 out.ResultMetadata = metadata
 return out, nil
}

type ListReceivedLicensesInput struct {

 // Filters to scope the results. The following filters are supported:
 //
 //   - ProductSKU
 //
 //   - Status
 //
 //
   - Fingerprint
 //
 //   - IssuerName
 //
 //   - Beneficiary
 Filters []types.Filter

 // Amazon Resource Names (ARNs) of the licenses.
 LicenseArns []string

 // Maximum number of results to return in a single call.
 MaxResults *int32

 // Token for the next set of results.
 NextToken *string

 noSmithyDocumentSerde
}

type ListReceivedLicensesOutput struct {
```

```
 // Received license details.
 Licenses []types.GrantedLicense

 // Token for the next set of results.
 NextToken *string

 // Metadata pertaining to the operation's result.
 ResultMetadata middleware.Metadata

 noSmithyDocumentSerde
}

func (c *Client) addOperationListReceivedLicensesMiddlewares(stack *middleware.Stack, options Options) (err
error) {
 if err := stack.Serialize.Add(&setOperationInputMiddleware{}, middleware.After); err != nil {
  return err
 }
 err = stack.Serialize.Add(&awsAwsjson11_serializeOpListReceivedLicenses{}, middleware.After)
 if err != nil {
  return err
 }
 err = stack.Deserialize.Add(&awsAwsjson11_deserializeOpListReceivedLicenses{},
 middleware.After)
 if err != nil {
  return err
 }
 if err := addProtocolFinalizerMiddlewares(stack, options, "ListReceivedLicenses"); err != nil {
  return fmt.Errorf("add protocol finalizers: %v", err)
 }

 if err = addlegacyEndpointContextSetter(stack, options); err != nil {
  return err
 }
 if err = addSetLoggerMiddleware(stack, options); err != nil {
  return err
 }
 if err = addClientRequestID(stack); err != nil {
  return err
 }
 if err = addComputeContentLength(stack); err != nil {
  return err
 }
 if err = addResolveEndpointMiddleware(stack, options); err != nil {
  return err
 }
 if err = addComputePayloadSHA256(stack); err != nil {
  return err
 }
```

```
 if err = addRetry(stack, options); err != nil {
  return err
 }
 if err = addRawResponseToMetadata(stack); err != nil {
  return err
 }
 if err = addRecordResponseTiming(stack); err != nil {
  return err
 }
 if err = addSpanRetryLoop(stack, options); err != nil {
  return err
 }
 if err =
 addClientUserAgent(stack, options); err != nil {
  return err
 }
 if err = smithyhttp.AddErrorCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = smithyhttp.AddCloseResponseBodyMiddleware(stack); err != nil {
  return err
 }
 if err = addSetLegacyContextSigningOptionsMiddleware(stack); err != nil {
  return err
 }
 if err = addTimeOffsetBuild(stack, c); err != nil {
  return err
 }
 if err = addUserAgentRetryMode(stack, options); err != nil {
  return err
 }
 if err = stack.Initialize.Add(newServiceMetadataMiddleware_opListReceivedLicenses(options.Region),
middleware.Before); err != nil {
  return err
 }
 if err = addRecursionDetection(stack); err != nil {
  return err
 }
 if err = addRequestIDRetrieverMiddleware(stack); err != nil {
  return err
 }
 if err = addResponseErrorMiddleware(stack); err != nil {
  return err
 }
 if err = addRequestResponseLogging(stack, options); err != nil {
  return err
 }
 if err = addDisableHTTPSMiddleware(stack, options); err !=
```

```
 nil {
  return err
 }
 if err = addSpanInitializeStart(stack); err != nil {
  return err
 }
 if err = addSpanInitializeEnd(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestStart(stack); err != nil {
  return err
 }
 if err = addSpanBuildRequestEnd(stack); err != nil {
  return err
 }
 return nil
}

func newServiceMetadataMiddleware_opListReceivedLicenses(region string)
*awsmiddleware.RegisterServiceMetadata {
 return &awsmiddleware.RegisterServiceMetadata{
  Region:       region,
  ServiceID:     ServiceID,
  OperationName: "ListReceivedLicenses",
 }
}
```

1.5749 ruamel.yaml 0.18.16

1.5749.1 Available under license :

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1.5750 ruamel-yaml 0.18.16

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1.5751 rpds-py 0.28.0

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1.5752 opentelemetry-go-contrib 0.44.0

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1.5753 go-isatty 0.0.20

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1.5754 botocore 1.40.59

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"UseFIPS": true,
"UseDualStack": true
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"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
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"params": {
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"UseFIPS": true,
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"documentation": "For region cn-north-1 with FIPS disabled
and DualStack enabled",
"expect": {
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"url": "https://license-manager.cn-north-1.api.amazonwebservices.com.cn"
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"params": {
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"UseFIPS": false,
"UseDualStack": true
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{
"documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager.us-gov-east-1.amazonaws.com"
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"params": {
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"UseFIPS": false,
"UseDualStack": false
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"documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
"expect": {
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}
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"params": {
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        "UseDualStack": false
    }
},
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    "documentation": "For region us-gov-west-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager.us-gov-west-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-west-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
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{
    "documentation": "For region us-gov-west-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-fips.us-gov-west-1.amazonaws.com"
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        "UseDualStack": false
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    "expect": {
        "endpoint": {
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    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
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        "documentation": "For region us-iso-east-1 with FIPS disabled and DualStack disabled",
        "expect": {
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          }
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        "params": {
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          "UseFIPS": false,
          "UseDualStack": false
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      {
        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
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            "url": "https://license-manager-fips.us-iso-east-1.c2s.ic.gov"
          }
        },
        "params": {
          "Region": "us-iso-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
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      {
        "documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",

       "expect": {
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            "url": "https://license-manager.us-isob-east-1.sc2s.sgov.gov"
          }
        },
        "params": {
          "Region": "us-isob-east-1",
          "UseFIPS": false,
          "UseDualStack": false
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    "documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
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      }
    },
    "params": {
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      "UseFIPS": true,
      "UseDualStack": false
    }
  },
  {
    "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"

      }
    },
    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
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    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
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    "params": {
      "UseFIPS": false,
      "UseDualStack": false,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "For custom endpoint with fips enabled and dualstack disabled",
    "expect": {
      "error": "Invalid Configuration: FIPS and custom endpoint are not supported"
    },
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"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
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"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true,
"Endpoint": "https://example.com"
}
},
{
"documentation": "Missing region",
"expect": {
"error": "Invalid Configuration: Missing Region"
}
}
],
"version": "1.0"
}

AWS Signature Version 4 Test Suite

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{
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "String"
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"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,
"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "Boolean"
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"UseFIPS": {

"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "Boolean"
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"Endpoint": {

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"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "String"
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"ref": "Endpoint"
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"argv": [
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"type": "error"
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            "type": "error"
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                "headers": {}
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                        "argv": [
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"ref": "PartitionResult"
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"supportsDualStack"
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"conditions": [],
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"properties": {},
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},

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                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
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fips.{Region}.{PartitionResult#dnsSuffix}",
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"conditions": [],
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"type": "error"
}
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"type": "tree"
},
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"conditions": [
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"argv": [
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"ref": "UseDualStack"
},
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"argv": [
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{
"fn": "getAttr",
"argv": [
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"ref": "PartitionResult"
},
"supportsDualStack"
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subscriptions.{Region}.{PartitionResult#dnsSuffix}",
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            "type": "tree"
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    "type": "error"
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    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurationAssociations"
  },
  "ListLicenseConfigurations": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseConfigurations"
  },
  "ListLicenseSpecificationsForResource": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "LicenseSpecifications"
  },
  "ListResourceInventory": {
    "input_token": "NextToken",
    "limit_key": "MaxResults",
    "output_token": "NextToken",
    "result_key": "ResourceInventoryList"
  },
  "ListUsageForLicenseConfiguration": {
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    "limit_key": "MaxResults",
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"output_token": "NextToken",
"result_key": "LicenseConfigurationUsageList"
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"pagination": {
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"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "Instances"
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"ListLinuxSubscriptions": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "Subscriptions"
},
"ListRegisteredSubscriptionProviders": {
"input_token": "NextToken",
"output_token": "NextToken",
"limit_key": "MaxResults",
"result_key": "RegisteredSubscriptionProviders"
}
}
}
{
"version":"2.0",
"metadata":{
"apiVersion":"2018-05-10",
"endpointPrefix":"license-manager-linux-subscriptions",
"jsonVersion":"1.1",
"protocol":"rest-json",
"protocols":["rest-json"],
"serviceFullName":"AWS License Manager Linux Subscriptions",
"serviceId":"License Manager Linux Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-linux-subscriptions",
"uid":"license-manager-linux-subscriptions-2018-05-10",
"auth":["aws.auth#sigv4"]
},
"operations":{
"DeregisterSubscriptionProvider":{
"name":"DeregisterSubscriptionProvider",
"http":{
"method":"POST",
"requestUri":"/subscription/DeregisterSubscriptionProvider",

"responseCode":200
},
"input":{"shape":"DeregisterSubscriptionProviderRequest"},
"output":{"shape":"DeregisterSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Remove a third-party subscription provider from the Bring Your Own License (BYOL) subscriptions registered to your account. ",
"idempotent":true
},
"GetRegisteredSubscriptionProvider":{
"name":"GetRegisteredSubscriptionProvider",
"http":{
"method":"POST",
"requestUri":"/subscription/GetRegisteredSubscriptionProvider",
"responseCode":200
},
"input":{"shape":"GetRegisteredSubscriptionProviderRequest"},
"output":{"shape":"GetRegisteredSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Get details for a Bring Your Own License (BYOL) subscription that's registered to your account. ",
"idempotent":true
},
"GetServiceSettings":{
"name":"GetServiceSettings",
"http":{
"method":"POST",
"requestUri":"/subscription/GetServiceSettings",
"responseCode":200
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Lists the Linux subscriptions service settings for your account. ",

"idempotent":true
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"ListLinuxSubscriptionInstances":{
"name":"ListLinuxSubscriptionInstances",
"http":{
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptionInstances",
"responseCode":200
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"input":{"shape":"ListLinuxSubscriptionInstancesRequest"},
"output":{"shape":"ListLinuxSubscriptionInstancesResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
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"documentation":" Lists the running Amazon EC2 instances that were discovered with commercial Linux subscriptions. ",
"idempotent":true
},
"ListLinuxSubscriptions":{
"name":"ListLinuxSubscriptions",
"http":{
"method":"POST",
"requestUri":"/subscription/ListLinuxSubscriptions",
"responseCode":200
},
"input":{"shape":"ListLinuxSubscriptionsRequest"},
"output":{"shape":"ListLinuxSubscriptionsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
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"documentation":" Lists the Linux subscriptions that have been discovered. If you have linked your organization, the returned results will include data aggregated across your accounts in Organizations. ",
"idempotent":true
},
"ListRegisteredSubscriptionProviders":{
"name":"ListRegisteredSubscriptionProviders",
"http":{
"method":"POST",
"requestUri":"/subscription/ListRegisteredSubscriptionProviders",
"responseCode":200
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"input":{"shape":"ListRegisteredSubscriptionProvidersRequest"},
"output":{"shape":"ListRegisteredSubscriptionProvidersResponse"},
"errors":[

{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" List Bring Your Own License (BYOL) subscription registration resources for your account. ",
"idempotent":true
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"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"GET",
"requestUri":"/tags/{resourceArn}",
"responseCode":200
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[

{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
],
"documentation":" List the metadata tags that are assigned to the specified Amazon Web Services resource. "
},
"RegisterSubscriptionProvider":{
"name":"RegisterSubscriptionProvider",
"http":{
"method":"POST",
"requestUri":"/subscription/RegisterSubscriptionProvider",
"responseCode":200
},
"input":{"shape":"RegisterSubscriptionProviderRequest"},
"output":{"shape":"RegisterSubscriptionProviderResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Register the supported third-party subscription provider for your Bring Your Own License (BYOL) subscription. ",
"idempotent":true
},
"TagResource":{
"name":"TagResource",
"http":{

"method":"PUT",
"requestUri":"/tags/{resourceArn}",
"responseCode":200
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ValidationException"}
],
"documentation":" Add metadata tags to the specified Amazon Web Services resource. ",
"idempotent":true
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"UntagResource":{
"name":"UntagResource",
"http":{
"method":"DELETE",
"requestUri":"/tags/{resourceArn}",
"responseCode":200
},
"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Remove one or more metadata tag from the specified Amazon Web Services resource. ",
"idempotent":true
},
"UpdateServiceSettings":{
"name":"UpdateServiceSettings",
"http":{
"method":"POST",
"requestUri":"/subscription/UpdateServiceSettings",
"responseCode":200
},
"input":{"shape":"UpdateServiceSettingsRequest"},
"output":{"shape":"UpdateServiceSettingsResponse"},
"errors":[
{"shape":"InternalServerException"},
{"shape":"ThrottlingException"},
{"shape":"ValidationException"}
],
"documentation":" Updates the service settings for Linux subscriptions. ",
"idempotent":true
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"shapes":{
"Boolean":{
"type":"boolean",
"box":true
},
"BoxInteger":{
"type":"integer",
"box":true
},
"BoxLong":{
"type":"long",
"box":true
},
"DeregisterSubscriptionProviderRequest":{
"type":"structure",
"required":["SubscriptionProviderArn"],
"members":{
"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the subscription provider resource to deregister. "
}
}
},
"DeregisterSubscriptionProviderResponse":{
"type":"structure",
"members":{
}
},
"Filter":{
"type":"structure",
"members":{
"Name":{
"shape":"String",
"documentation":" The type of name to filter by. "
},
"Operator":{
"shape":"Operator",
"documentation":" An operator for filtering results. "
},
"Values":{
"shape":"StringList",
"documentation":" One or more values for the name to filter by. "
}
},
"documentation":" A filter object that is used to return more specific results from a describe operation. Filters can be used to match a set of resources by specific criteria. "

},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"GetRegisteredSubscriptionProviderRequest":{
"type":"structure",
"required":["SubscriptionProviderArn"],
"members":{
"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the BYOL registration resource to get details for. "
}
}
},
"GetRegisteredSubscriptionProviderResponse":{
"type":"structure",
"members":{
"LastSuccessfulDataRetrievalTime":{
"shape":"String",
"documentation":" The timestamp from the last time License Manager retrieved subscription details from your registered third-party Linux subscription provider. "
},
"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the third-party access secret stored in Secrets Manager for the BYOL registration resource specified in the request. "
},

"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) for the BYOL registration resource specified in the request. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The subscription provider for the BYOL registration resource specified in the request. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" The status of the Linux subscription provider access token from the last successful subscription data request. "
},
"SubscriptionProviderStatusMessage":{
"shape":"String",
"documentation":" The detailed message from your subscription provider token status. "

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      }
    }
  },
  "GetServiceSettingsRequest":{
    "type":"structure",
    "members":{
    }
  },
  "GetServiceSettingsResponse":{
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    "members":{
      "HomeRegions":{
        "shape":"StringList",
        "documentation":"<p>The Region in which License Manager displays the aggregated data for Linux
subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscovery":{
        "shape":"LinuxSubscriptionsDiscovery",
        "documentation":"<p>Lists if discovery has been enabled for Linux subscriptions.</p>"
      },
      "LinuxSubscriptionsDiscoverySettings":{
        "shape":"LinuxSubscriptionsDiscoverySettings",
        "documentation":"<p>Lists the settings defined for Linux subscriptions discovery. The settings include if
Organizations integration has been enabled, and which Regions data will be aggregated from.</p>"
      },
      "Status":{
        "shape":"Status",
        "documentation":"<p>Indicates the status of Linux subscriptions settings being applied.</p>"
      },
      "StatusMessage":{
        "shape":"StringMap",
        "documentation":"<p>A
 message which details the Linux subscriptions service settings current status.</p>"
      }
    }
  },
  "Instance":{
    "type":"structure",
    "members":{
      "AccountID":{
        "shape":"String",
        "documentation":"<p>The account ID which owns the instance.</p>"
      },
      "AmiId":{
        "shape":"String",
        "documentation":"<p>The AMI ID used to launch the instance.</p>"
      },
      "DualSubscription":{
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"shape":"String",
"documentation":" Indicates that you have two different license subscriptions for the same software on your instance. "
},
"InstanceID":{
"shape":"String",
"documentation":" The instance ID of the resource. "
},
"InstanceType":{
"shape":"String",
"documentation":" The instance type of the resource. "
},
"LastUpdatedTime":{
"shape":"String",
"documentation":" The
time in which the last discovery updated the instance details. "
},
"OsVersion":{
"shape":"String",
"documentation":" The operating system software version that runs on your instance. "
},
"ProductCode":{
"shape":"ProductCodeList",
"documentation":" The product code for the instance. For more information, see Usage operation values in the License Manager User Guide . "
},
"Region":{
"shape":"String",
"documentation":" The Region the instance is running in. "
},
"RegisteredWithSubscriptionProvider":{
"shape":"String",
"documentation":" Indicates that your instance uses a BYOL license subscription from a third-party Linux subscription provider that you've registered with License Manager. "
},
"Status":{
"shape":"String",
"documentation":" The status of the instance. "
},
"SubscriptionName":{
"shape":"String",
"documentation":" The name of the license subscription that the instance uses. "
},
"SubscriptionProviderCreateTime":{
"shape":"String",
"documentation":" The timestamp when you registered the third-party Linux subscription provider for the subscription that the instance uses. "

},
"SubscriptionProviderUpdateTime":{
"shape":"String",
"documentation":" The timestamp from the last time that the instance synced with the registered third-party Linux subscription provider. "
},
"UsageOperation":{
"shape":"String",
"documentation":" The usage operation of the instance. For more information, see For more information, see Usage
operation values in the License Manager User Guide. "
}
},
"documentation":" Details discovered information about a running instance using Linux subscriptions. "
},
"InstanceList":{
"type":"list",
"member":{"shape":"Instance"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" An exception occurred with the service. ",
"exception":true,
"fault":true
},
"LinuxSubscriptionsDiscovery":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"LinuxSubscriptionsDiscoverySettings":{
"type":"structure",
"required":[
"OrganizationIntegration",
"SourceRegions"
],
"members":{
"OrganizationIntegration":{
"shape":"OrganizationIntegration",
"documentation":" Details
if you have enabled resource discovery across your accounts in Organizations. "
},

"SourceRegions":{
"shape":"StringList",
"documentation":" The Regions in which to discover data for Linux subscriptions. "
}
},
"documentation":" Lists the settings defined for discovering Linux subscriptions. "
},
"ListLinuxSubscriptionInstancesRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" An array of structures that you can use to filter the results by your specified criteria. For example, you can specify <code>Region</code> in the <code>Name</code>, with the <code>contains</code> operator to list all subscriptions that match a partial string in the <code>Value</code>, such as <code>us-west</code>. For each filter, you can specify one of the following values for the <code>Name</code> key to streamline results:
  <code>AccountID</code>   <code>AmiID</code>   <code>DualSubscription</code>   <code>InstanceID</code>   <code>InstanceType</code>   <code>ProductCode</code>   <code>Region</code>   <code>Status</code>   <code>UsageOperation</code>   For each filter, you can use one of the following <code>Operator</code> values to define the behavior of the filter: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum items to return in a request. "
},
"NextToken":{
"shape":"ListLinuxSubscriptionInstancesRequestNextTokenString",
"documentation":" A token to specify where to start paginating.
This is the nextToken from a previously truncated response. "
}
},
"documentation":" NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. "
},
"ListLinuxSubscriptionInstancesRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionInstancesResponse":{
"type":"structure",
"members":{
"Instances":{
"shape":"InstanceList",

"documentation":" An array that contains instance objects. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListLinuxSubscriptionsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" An array of structures that you can use to filter the results to those that match one or more sets of key-value pairs that you specify. For example, you can filter by the name of <code>Subscription</code> with an optional operator to see subscriptions that match, partially match, or don't match a certain subscription's name. The valid names for this filter are: <ul> <code>Subscription</code>   The valid Operators for this filter are: <ul> <code>contains</code>   <code>equals</code>   <code>Notequal</code> "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum items to return in a request. "
},
"NextToken":{
"shape":"ListLinuxSubscriptionsRequestNextTokenString",
"documentation":" A token to specify where
to start paginating. This is the nextToken from a previously truncated response. "
}
},
"documentation":" NextToken length limit is half of ddb accepted limit. Increase this limit if parameters in request increases. "
},
"ListLinuxSubscriptionsRequestNextTokenString":{
"type":"string",
"max":16384,
"min":1
},
"ListLinuxSubscriptionsResponse":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve

additional objects. "
      },
      "Subscriptions":{
        "shape":"SubscriptionList",
        "documentation":" An array that contains subscription objects. "
      }
    }
  },
  "ListRegisteredSubscriptionProvidersRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{
        "shape":"ListRegisteredSubscriptionProvidersRequestMaxResultsInteger",
        "documentation":" The maximum items to return in a request. "
      },
      "NextToken":{
        "shape":"String",
        "documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
      },
      "SubscriptionProviderSources":{
        "shape":"SubscriptionProviderSourceList",
        "documentation":" To filter your results, specify which subscription providers to return in the list. "
      }
    }
  },
  "ListRegisteredSubscriptionProvidersRequestMaxResultsInteger":{
    "type":"integer",
    "box":true,
    "max":100,
    "min":1
  },
  "ListRegisteredSubscriptionProvidersResponse":{
    "type":"structure",
    "members":{
      "NextToken":{
        "shape":"String",
        "documentation":" The next token
 used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
      },
      "RegisteredSubscriptionProviders":{
        "shape":"RegisteredSubscriptionProviderList",
        "documentation":" The list of BYOL registration resources that fit the criteria you specified in the request. "
      }
    }
  },

"ListTagsForResourceRequest":{
"type":"structure",
"required":["resourceArn"],
"members":{
"resourceArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the resource for which to list metadata tags. ",
"location":"uri",
"locationName":"resourceArn"
}
}
},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{
"tags":{
"shape":"Tags",

"documentation":" The metadata tags for the requested resource. "
}
}
},
"Operator":{
"type":"string",
"enum":[
"Equal",
"NotEqual",
"Contains"
],
"max":20,
"min":1
},
"OrganizationIntegration":{
"type":"string",
"enum":[
"Enabled",
"Disabled"
]
},
"ProductCodeList":{
"type":"list",
"member":{"shape":"String"}
},
"RegisterSubscriptionProviderRequest":{
"type":"structure",
"required":[
"SecretArn",

"SubscriptionProviderSource"
],
"members":{
"SecretArn":{
"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the secret where you've stored your subscription provider's access token. For RHEL subscriptions managed through the Red Hat Subscription Manager (RHSM), the secret contains your Red Hat Offline token. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The supported Linux subscription provider to register. "
},
"Tags":{
"shape":"Tags",
"documentation":" The metadata tags to assign to your registered Linux subscription provider resource. "
}
}
},
"RegisterSubscriptionProviderResponse":{
"type":"structure",
"members":{
"SubscriptionProviderArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
},
"SubscriptionProviderSource":{
"shape":"SubscriptionProviderSource",
"documentation":" The Linux subscription provider that you registered. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" Indicates the status of the registration action for the Linux subscription provider that you requested. "
}
}
},
"RegisteredSubscriptionProvider":{
"type":"structure",
"members":{
"LastSuccessfulDataRetrievalTime":{
"shape":"String",
"documentation":" The timestamp from the last time that License Manager accessed third-party subscription data for your account from your registered Linux subscription provider. "
},
"SecretArn":{

"shape":"SecretArn",
"documentation":" The Amazon Resource Name (ARN) of the Secrets Manager secret that stores your registered Linux subscription provider access token. For RHEL account subscriptions, this is the offline token. "
},
"SubscriptionProviderArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the Linux subscription provider resource that you registered. "
},
"SubscriptionProviderSource":{

"shape":"SubscriptionProviderSource",
"documentation":" A supported third-party Linux subscription provider. License Manager currently supports Red Hat subscriptions. "
},
"SubscriptionProviderStatus":{
"shape":"SubscriptionProviderStatus",
"documentation":" Indicates the status of your registered Linux subscription provider access token from the last time License Manager retrieved subscription data. For RHEL account subscriptions, this is the status of the offline token. "
},
"SubscriptionProviderStatusMessage":{
"shape":"String",
"documentation":" A detailed message that's associated with your BYOL subscription provider token status. "
}
},
"documentation":" A third-party provider for operating system (OS) platform software and license subscriptions, such as Red Hat. When you register a third-party Linux subscription provider, License Manager can get subscription
data from the registered provider. "
},
"RegisteredSubscriptionProviderList":{
"type":"list",
"member":{"shape":"RegisteredSubscriptionProvider"}
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" Unable to find the requested Amazon Web Services resource. ",
"exception":true
},
"SecretArn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:secretsmanager:[a-z0-9-\\.]{0,63}:[a-z0-9-\\.]{0,63}:secret:[^/]{1,1023}$"
},

"Status":{
"type":"string",
"enum":[
"InProgress",
"Completed",
"Successful",
"Failed"
]
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"StringListMemberString"},
"max":100,
"min":1
},
"StringListMemberString":{
"type":"string",
"max":100,
"min":1
},
"StringMap":{
"type":"map",
"key":{"shape":"String"},
"value":{"shape":"String"}
},
"Subscription":{
"type":"structure",
"members":{
"InstanceCount":{
"shape":"BoxLong",
"documentation":" The total amount of running instances using this subscription. "
},
"Name":{
"shape":"String",
"documentation":" The name of the subscription. "
},
"Type":{
"shape":"String",
"documentation":" The type of subscription. The type can be subscription-included with Amazon EC2, Bring Your Own Subscription model (BYOS), or from the Amazon Web Services Marketplace. Certain subscriptions may use licensing from the Amazon Web Services Marketplace as well as OS licensing from Amazon EC2 or BYOS. "
}
},
"documentation":" An object which details a discovered Linux subscription. "
},
"SubscriptionList":{

"type":"list",
"member":{"shape":"Subscription"}
},
"SubscriptionProviderArn":{
"type":"string",
"pattern":"^arn:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,63}:[a-z0-9-\\.]{1,510}/[a-z0-9-\\.]{1,510}$"
},
"SubscriptionProviderSource":{
"type":"string",
"enum":["RedHat"]
},
"SubscriptionProviderSourceList":{
"type":"list",
"member":{"shape":"SubscriptionProviderSource"}
},
"SubscriptionProviderStatus":{
"type":"string",
"enum":[
"ACTIVE",
"INVALID",
"PENDING"
]
},
"TagKeyList":{
"type":"list",
"member":{"shape":"String"},
"max":50,
"min":0,
"sensitive":true
},
"TagResourceRequest":{
"type":"structure",
"required":[
"resourceArn",
"tags"
],
"members":{
"resourceArn":{
"shape":"SubscriptionProviderArn",
"documentation":" The Amazon Resource Name (ARN) of the Amazon Web Services resource to which to add the specified metadata tags. ",
"location":"uri",
"locationName":"resourceArn"
},
"tags":{
"shape":"Tags",
"documentation":" The metadata tags to assign to the Amazon Web Services resource. Tags are formatted

as key value pairs. "
      }
    }
  },
  "TagResourceResponse":{
    "type":"structure",
    "members":{
    }
  },
  "Tags":{
    "type":"map",
    "key":{"shape":"String"},
    "value":{"shape":"String"},
    "max":50,
    "min":0,
    "sensitive":true
  },
  "ThrottlingException":{
    "type":"structure",
    "members":{
      "message":{"shape":"String"}
    },
    "documentation":" The request was denied due to request throttling. ",
    "exception":true
  },
  "UntagResourceRequest":{
    "type":"structure",
    "required":[
      "resourceArn",
      "tagKeys"
    ],
    "members":{
      "resourceArn":{
        "shape":"SubscriptionProviderArn",
        "documentation":" The Amazon Resource Name (ARN) of the Amazon Web Services resource to remove the metadata tags from. ",
        "location":"uri",
        "locationName":"resourceArn"
      },
      "tagKeys":{
        "shape":"TagKeyList",
        "documentation":" A list of metadata tag keys to remove from the requested resource. ",
        "location":"querystring",
        "locationName":"tagKeys"
      }
    }
  },
  "UntagResourceResponse":{

"type":"structure",
"members":{
}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"required":[
"LinuxSubscriptionsDiscovery",
"LinuxSubscriptionsDiscoverySettings"
],
"members":{
"AllowUpdate":{
"shape":"Boolean",
"documentation":" Describes if updates are allowed to the service settings for Linux subscriptions. If you allow updates, you can aggregate
Linux subscription data in more than one home Region. "
},
"LinuxSubscriptionsDiscovery":{
"shape":"LinuxSubscriptionsDiscovery",
"documentation":" Describes if the discovery of Linux subscriptions is enabled. "
},
"LinuxSubscriptionsDiscoverySettings":{
"shape":"LinuxSubscriptionsDiscoverySettings",
"documentation":" The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{
"HomeRegions":{
"shape":"StringList",
"documentation":" The Region in which License Manager displays the aggregated data for Linux subscriptions. "
},
"LinuxSubscriptionsDiscovery":{
"shape":"LinuxSubscriptionsDiscovery",
"documentation":" Lists
if discovery has been enabled for Linux subscriptions. "
},
"LinuxSubscriptionsDiscoverySettings":{
"shape":"LinuxSubscriptionsDiscoverySettings",
"documentation":" The settings defined for Linux subscriptions discovery. The settings include if Organizations integration has been enabled, and which Regions data will be aggregated from. "
},
"Status":{
"shape":"Status",

"documentation":" Indicates the status of Linux subscriptions settings being applied. "
},
"StatusMessage":{
"shape":"StringMap",
"documentation":" A message which details the Linux subscriptions service settings current status. "
}
}
},
"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The provided input is not valid. Try your request again. ",
"exception":true
}

},
"documentation":" With License Manager, you can discover and track your commercial Linux subscriptions on running Amazon EC2 instances. "
}
{
"ResponseMetadata": {
"RequestId": "9a285199-c8d6-47c2-bdb2-314cb47d599d"
}
}
{
"version": "1.0",
"examples": {
}
}
{
"testCases": [
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",

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      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": true,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and
DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.api.aws"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": true
      }
    },
    {
      "documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions.us-east-1.amazonaws.com"
        }
      },
      "params": {
        "Region": "us-east-1",
        "UseFIPS": false,
        "UseDualStack": false
      }
    },
    {
      "documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
      "expect": {
        "endpoint": {
          "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
         }
      },
      "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
```

```
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.api.amazonwebservices.com.cn"
         }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": true
    }
},
{
    "documentation": "For region cn-north-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.cn-north-1.amazonaws.com.cn"
        }
    },
    "params": {
        "Region": "cn-north-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.api.aws"
        }
```

```
    },
    "params": {
        "Region": "us-gov-east-1",
         "UseFIPS": true,
        "UseDualStack": true
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions-fips.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": true,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack enabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.api.aws"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": true
     }
},
{
    "documentation": "For region us-gov-east-1 with FIPS disabled and DualStack disabled",
    "expect": {
        "endpoint": {
            "url": "https://license-manager-linux-subscriptions.us-gov-east-1.amazonaws.com"
        }
    },
    "params": {
        "Region": "us-gov-east-1",
        "UseFIPS": false,
        "UseDualStack": false
    }
},
{
    "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
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"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-iso-east-1
with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-iso-east-1.c2s.ic.gov"
}
},
"params": {
"Region": "us-iso-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-linux-subscriptions-fips.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",
"UseFIPS": true,
"UseDualStack": false
}
},
{
"documentation": "For region us-isob-east-1 with FIPS disabled and DualStack disabled",
"expect":
{
"endpoint": {
"url": "https://license-manager-linux-subscriptions.us-isob-east-1.sc2s.sgov.gov"
}
},
"params": {
"Region": "us-isob-east-1",

"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url": "https://example.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
"expect": {
"endpoint": {
"url":
"https://example.com"
}
},
"params": {
"UseFIPS": false,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips enabled and dualstack disabled",
"expect": {
"error": "Invalid Configuration: FIPS and custom endpoint are not supported"
},
"params": {
"Region": "us-east-1",
"UseFIPS": true,
"UseDualStack": false,
"Endpoint": "https://example.com"
}
},
{
"documentation": "For custom endpoint with fips disabled and dualstack enabled",
"expect": {
"error": "Invalid Configuration: Dualstack and custom endpoint are not supported"

```
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS":
false,
          "UseDualStack": true,
          "Endpoint": "https://example.com"
        }
      },
      {
        "documentation": "Missing region",
        "expect": {
          "error": "Invalid Configuration: Missing Region"
        }
      }
  ],
  "version": "1.0"
}
{
  "testCases": [
      {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack enabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-east-1.api.aws"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": true,
          "UseDualStack": true
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS enabled and DualStack disabled",
        "expect": {
          "endpoint": {
            "url": "https://license-manager-user-subscriptions-fips.us-east-1.amazonaws.com"
          }
        },
        "params": {
          "Region": "us-east-1",
          "UseFIPS": true,
          "UseDualStack": false
        }
      },
      {
        "documentation": "For region us-east-1 with FIPS disabled and DualStack
```

enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.api.aws"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": true
}
},
{
"documentation": "For region us-east-1 with FIPS disabled and DualStack disabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions.us-east-1.amazonaws.com"
}
},
"params": {
"Region": "us-east-1",
"UseFIPS": false,
"UseDualStack": false
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack enabled",
"expect": {
"endpoint": {
"url": "https://license-manager-user-subscriptions-fips.cn-north-1.api.amazonwebservices.com.cn"
}
},
"params": {
"Region": "cn-north-1",
"UseFIPS": true,
"UseDualStack": true
}
},
{
"documentation": "For region cn-north-1 with FIPS enabled and DualStack disabled",
"expect": {
"endpoint": {
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}
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"Region": "cn-north-1",
"UseFIPS": true,

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        "UseDualStack": false
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    },
    {
      "documentation": "For region cn-north-1 with FIPS disabled and DualStack enabled",
      "expect": {
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      "params": {
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      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack enabled",
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        "UseDualStack": true
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      "documentation": "For region us-gov-east-1 with FIPS enabled and DualStack disabled",
      "expect": {
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```

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        "documentation": "For region us-iso-east-1 with FIPS enabled and DualStack disabled",
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        "UseDualStack": false
      }
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        "UseDualStack": false
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      "expect": {

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        }
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        "UseFIPS": false,
        "UseDualStack": false
      }
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      "documentation": "For custom endpoint with region set and fips disabled and dualstack disabled",
      "expect": {
        "endpoint": {
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        }
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      "UseFIPS": false,
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    "documentation": "For custom endpoint with region not set and fips disabled and dualstack disabled",
    "expect": {
      "endpoint": {
        "url": "https://example.com"
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      "UseDualStack": false,
      "Endpoint": "https://example.com"
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      "Endpoint": "https://example.com"
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    "expect": {
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    "params": {
      "Region": "us-east-1",
      "UseFIPS": false,
      "UseDualStack": true,
      "Endpoint": "https://example.com"
    }
  },
  {
    "documentation": "Missing region",
    "expect": {
      "error": "Invalid Configuration: Missing Region"
```

```
        }
      }
  ],
  "version": "1.0"
}
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{
"version":"2.0",

"metadata":{
"apiVersion":"2018-05-10",
"auth":["aws.auth#sigv4"],
"endpointPrefix":"license-manager-user-subscriptions",
"protocol":"rest-json",
"protocols":["rest-json"],
"serviceFullName":"AWS License Manager User Subscriptions",
"serviceId":"License Manager User Subscriptions",
"signatureVersion":"v4",
"signingName":"license-manager-user-subscriptions",
"uid":"license-manager-user-subscriptions-2018-05-10"
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"operations":{
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"http":{
"method":"POST",
"requestUri":"/user/AssociateUser",
"responseCode":200
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"input":{"shape":"AssociateUserRequest"},
"output":{"shape":"AssociateUserResponse"},
"errors":[
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{"shape":"ValidationException"},
{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Associates the user to an EC2 instance to utilize user-based subscriptions. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>",
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"requestUri":"/license-server/CreateLicenseServerEndpoint",
"responseCode":200
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"output":{"shape":"CreateLicenseServerEndpointResponse"},

"errors":[
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{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
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"documentation":" Creates a network endpoint for the Remote Desktop Services (RDS) license server. ",
"idempotent":true
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"DeleteLicenseServerEndpoint":{
"name":"DeleteLicenseServerEndpoint",
"http":{
"method":"POST",
"requestUri":"/license-server/DeleteLicenseServerEndpoint",
"responseCode":200
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"output":{"shape":"DeleteLicenseServerEndpointResponse"},
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{"shape":"ValidationException"},
{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
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"documentation":" Deletes a <code>LicenseServerEndpoint</code> resource. ",
"idempotent":true
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"DeregisterIdentityProvider":{
"name":"DeregisterIdentityProvider",
"http":{
"method":"POST",
"requestUri":"/identity-provider/DeregisterIdentityProvider",
"responseCode":200
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"input":{"shape":"DeregisterIdentityProviderRequest"},
"output":{"shape":"DeregisterIdentityProviderResponse"},
"errors":[
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{"shape":"ValidationException"},
{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},

{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
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"documentation":" Deregisters
the Active Directory identity provider from License Manager user-based subscriptions. ",
"idempotent":true
},
"DisassociateUser":{
"name":"DisassociateUser",
"http":{
"method":"POST",
"requestUri":"/user/DisassociateUser",
"responseCode":200
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"input":{"shape":"DisassociateUserRequest"},
"output":{"shape":"DisassociateUserResponse"},
"errors":[
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{"shape":"ValidationException"},
{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
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"documentation":" Disassociates the user from an EC2 instance providing user-based subscriptions. ",
"idempotent":true
},
"ListIdentityProviders":{
"name":"ListIdentityProviders",
"http":{
"method":"POST",
"requestUri":"/identity-provider/ListIdentityProviders",
"responseCode":200
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"input":{"shape":"ListIdentityProvidersRequest"},
"output":{"shape":"ListIdentityProvidersResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ValidationException"},
{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Lists the Active Directory identity providers for user-based subscriptions. "
},

"ListInstances":{
  "name":"ListInstances",
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    "requestUri":"/instance/ListInstances",
    "responseCode":200
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  "input":{"shape":"ListInstancesRequest"},
  "output":{"shape":"ListInstancesResponse"},
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  "documentation":" Lists the EC2 instances providing user-based subscriptions. "
},
"ListLicenseServerEndpoints":{
  "name":"ListLicenseServerEndpoints",
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  "documentation":" List the Remote Desktop Services (RDS) License Server endpoints "
},
"ListProductSubscriptions":{
  "name":"ListProductSubscriptions",
  "http":{
    "method":"POST",
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    "responseCode":200
  },
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{"shape":"ConflictException"},
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{"shape":"InternalServerException"},
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{"shape":"AccessDeniedException"}
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"documentation":" Lists the user-based subscription products available from an identity provider. "
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"ListTagsForResource":{
"name":"ListTagsForResource",
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"method":"GET",
"requestUri":"/tags/{ResourceArn}",
"responseCode":200
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"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"}
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"documentation":" Returns the list of tags for the specified resource. "
},
"ListUserAssociations":{
"name":"ListUserAssociations",
"http":{
"method":"POST",
"requestUri":"/user/ListUserAssociations",
"responseCode":200
},
"input":{"shape":"ListUserAssociationsRequest"},
"output":{"shape":"ListUserAssociationsResponse"},
"errors":[
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{"shape":"ValidationException"},
{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Lists user associations for an identity provider. "
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"RegisterIdentityProvider":{
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"responseCode":200
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{"shape":"ValidationException"},
{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Registers an identity provider for user-based subscriptions. ",
"idempotent":true
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"StartProductSubscription":{
"name":"StartProductSubscription",
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"responseCode":200
},
"input":{"shape":"StartProductSubscriptionRequest"},
"output":{"shape":"StartProductSubscriptionResponse"},
"errors":[
{"shape":"ServiceQuotaExceededException"},
{"shape":"ValidationException"},
{"shape":"ConflictException"},
{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"ResourceNotFoundException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Starts a product subscription for a user with the specified identity provider. <note> Your estimated bill for charges on the number of users and related costs will take 48 hours to appear for billing periods that haven't closed (marked as Pending billing status) in Amazon Web Services Billing. For more information, see Viewing your monthly charges in the Amazon Web Services Billing User Guide. </note>"
},
"StopProductSubscription":{
"name":"StopProductSubscription",
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```
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    "requestUri":"/user/StopProductSubscription",
    "responseCode":200
  },
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    {"shape":"ThrottlingException"},
    {"shape":"InternalServerException"},
    {"shape":"ResourceNotFoundException"},
    {"shape":"AccessDeniedException"}
  ],
  "documentation":"<p>Stops a product subscription for a user with the specified identity provider.</p>"
},
"TagResource":{
  "name":"TagResource",
  "http":{
    "method":"PUT",
     "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
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  "input":{"shape":"TagResourceRequest"},
  "output":{"shape":"TagResourceResponse"},
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    {"shape":"ResourceNotFoundException"}
  ],
  "documentation":"<p>Adds tags to a resource.</p>",
  "idempotent":true
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"UntagResource":{
  "name":"UntagResource",
  "http":{
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    "requestUri":"/tags/{ResourceArn}",
    "responseCode":200
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  "input":{"shape":"UntagResourceRequest"},
  "output":{"shape":"UntagResourceResponse"},
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  "documentation":"<p>Removes tags from a resource.</p>",
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"idempotent":true
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"responseCode":200
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"output":{"shape":"UpdateIdentityProviderSettingsResponse"},
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{"shape":"ThrottlingException"},
{"shape":"InternalServerException"},
{"shape":"AccessDeniedException"}
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"documentation":" Updates additional product configuration settings for the registered identity provider. ",
"idempotent":true
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"shapes":{
"AccessDeniedException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" You don't have sufficient access to perform this action. ",
"exception":true
},
"ActiveDirectoryIdentityProvider":{
"type":"structure",
"members":{
"DirectoryId":{

"shape":"Directory",
"documentation":" The directory ID for an Active Directory identity provider. "
},
"ActiveDirectorySettings":{
"shape":"ActiveDirectorySettings",
"documentation":" The <code>ActiveDirectorySettings</code> resource contains details about the Active Directory, including network access details such as domain name and IP addresses, and the credential provider for user administration. "
},
"ActiveDirectoryType":{
"shape":"ActiveDirectoryType",
"documentation":" The type of Active Directory either a self-managed Active Directory or an Amazon

Web Services Managed Active Directory. "
},
"IsSharedActiveDirectory":{
"shape":"Boolean",
"documentation":" Whether this directory is shared from an Amazon Web Services Managed Active Directory. The default value is false. "
}
},
"documentation":" Details about an Active Directory identity provider. "
},
"ActiveDirectorySettings":{
"type":"structure",
"members":{
"DomainName":{
"shape":"String",
"documentation":" The domain name for the Active Directory. "
},
"DomainIpv4List":{
"shape":"ActiveDirectorySettingsDomainIpv4ListList",
"documentation":" A list of domain IPv4 addresses that are used for the Active Directory. "
},
"DomainIpv6List":{
"shape":"ActiveDirectorySettingsDomainIpv6ListList",
"documentation":" A list of domain IPv6 addresses that are used for the Active Directory. "
},
"DomainCredentialsProvider":{
"shape":"CredentialsProvider",
"documentation":" Points to the <code>CredentialsProvider</code> resource that contains information about the credential provider for user administration. "
},
"DomainNetworkSettings":{
"shape":"DomainNetworkSettings",
"documentation":" The <code>DomainNetworkSettings</code> resource contains an array of subnets that apply for the Active Directory. "
}
},
"documentation":" Contains network access and credential details that are needed for user administration in the Active Directory. "
},
"ActiveDirectorySettingsDomainIpv4ListList":{
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"max":2,
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"ActiveDirectorySettingsDomainIpv6ListList":{
"type":"list",

"member":{"shape":"IpV6"},
"max":2,
"min":1
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"ActiveDirectoryType":{
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"SELF_MANAGED",
"AWS_MANAGED"
]
},
"Arn":{
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},
"AssociateUserRequest":{
"type":"structure",
"required":[

"Username",
"InstanceId",
"IdentityProvider"
],
"members":{
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance that provides the user-based subscription. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The identity provider for the user. "
},
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains information for the user to associate. "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply for the user association. "
}
}
},

"AssociateUserResponse":{
"type":"structure",
"required":["InstanceUserSummary"],
"members":{

"InstanceUserSummary":{
"shape":"InstanceUserSummary",
"documentation":" Metadata that describes the associate user operation. "
}
}
},
"Boolean":{
"type":"boolean",
"box":true
},
"BoxInteger":{
"type":"integer",
"box":true
},
"ConflictException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request couldn't be completed because it conflicted with the current state of the resource. ",
"exception":true,
"fault":true
},
"CreateLicenseServerEndpointRequest":{
"type":"structure",
"required":[
"IdentityProviderArn",
"LicenseServerSettings"
],
"members":{
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the <code>IdentityProvider</code> resource that contains details about a registered
identity provider. In the case of Active Directory, that can be a self-managed Active Directory or an Amazon Web Services Managed Active Directory that contains user identity details. "
},
"LicenseServerSettings":{
"shape":"LicenseServerSettings",
"documentation":" The <code>LicenseServerSettings</code> resource to create for the endpoint. The settings include the type of license server and the Secrets Manager secret that enables administrators to add or remove users associated with the license server. "

```
      },
      "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags that apply for the license server endpoint.</p>"
      }
    }
  },
  "CreateLicenseServerEndpointResponse":{
    "type":"structure",
    "members":{
      "IdentityProviderArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the identity provider specified in the
request.</p>"
      },

    "LicenseServerEndpointArn":{
        "shape":"Arn",
        "documentation":"<p>The ARN of the <code>LicenseServerEndpoint</code> resource.</p>"
      }
    }
  },
  "CredentialsProvider":{
    "type":"structure",
    "members":{
      "SecretsManagerCredentialsProvider":{
        "shape":"SecretsManagerCredentialsProvider",
        "documentation":"<p>Identifies the Secrets Manager secret that contains credentials needed for user
administration in the Active Directory.</p>"
      }
    },
    "documentation":"<p>Contains information about the credential provider for user administration.</p>",
    "union":true
  },
  "DeleteLicenseServerEndpointRequest":{
    "type":"structure",
    "required":[
      "LicenseServerEndpointArn",
      "ServerType"
    ],
    "members":{
      "LicenseServerEndpointArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) that identifies the
<code>LicenseServerEndpoint</code>
 resource to delete.</p>"
      },
      "ServerType":{
```

"shape":"ServerType",
"documentation":" The type of License Server that the delete request refers to. "
}
}
},
"DeleteLicenseServerEndpointResponse":{
"type":"structure",
"members":{
"LicenseServerEndpoint":{
"shape":"LicenseServerEndpoint",
"documentation":" Shows details from the <code>LicenseServerEndpoint</code> resource that was deleted. "
}
}
},
"DeregisterIdentityProviderRequest":{
"type":"structure",
"members":{
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the Active Directory identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the identity provider to deregister. "
}
}
},
"DeregisterIdentityProviderResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{
"IdentityProviderSummary":{
"shape":"IdentityProviderSummary",
"documentation":" Metadata that describes the results of an identity provider operation. "
}
}
},
"Directory":{
"type":"string",
"pattern":"(d|sd)-[0-9a-f]{10}"

```
  },
  "DisassociateUserRequest":{
    "type":"structure",
    "members":{
      "Username":{
        "shape":"String",
        "documentation":"<p>The user name from the Active Directory identity provider for the user.</p>"

    },
      "InstanceId":{
        "shape":"String",
        "documentation":"<p>The ID of the EC2 instance which provides user-based subscriptions.</p>"
      },
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the Active Directory identity provider.</p>"
      },
      "InstanceUserArn":{
        "shape":"Arn",
        "documentation":"<p>The Amazon Resource Name (ARN) of the user to disassociate from the EC2
instance.</p>"
      },
      "Domain":{
        "shape":"String",
        "documentation":"<p>The domain name of the Active Directory that contains information for the user to
disassociate.</p>"
      }
    }
  },
  "DisassociateUserResponse":{
    "type":"structure",
    "required":["InstanceUserSummary"],
    "members":{
      "InstanceUserSummary":{
        "shape":"InstanceUserSummary",
        "documentation":"<p>Metadata that describes the associate
 user operation.</p>"
      }
    }
  },
  "DomainNetworkSettings":{
    "type":"structure",
    "required":["Subnets"],
    "members":{
      "Subnets":{
        "shape":"DomainNetworkSettingsSubnetsList",
        "documentation":"<p>Contains a list of subnets that apply for the Active Directory domain.</p>"
      }
```

},
"documentation":" Contains network settings for the Active Directory domain. "
},
"DomainNetworkSettingsSubnetsList":{
"type":"list",
"member":{"shape":"Subnet"},
"min":1
},
"Filter":{
"type":"structure",
"members":{
"Attribute":{
"shape":"String",
"documentation":" The name of an attribute to use as a filter. "
},
"Operation":{
"shape":"String",
"documentation":" The type of search (For example, eq, geq, leq) "
},
"Value":{
"shape":"String",
"documentation":" Value of the
filter. "
}
},
"documentation":" A filter name and value pair that is used to return more specific results from a describe or list operation. You can use filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. "
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"IdentityProvider":{
"type":"structure",
"members":{
"ActiveDirectoryIdentityProvider":{
"shape":"ActiveDirectoryIdentityProvider",
"documentation":" The <code>ActiveDirectoryIdentityProvider</code> resource contains settings and other details about a specific Active Directory identity provider. "
}
},
"documentation":" Refers to an identity provider. ",
"union":true
},
"IdentityProviderSummary":{
"type":"structure",
"required":[

"IdentityProvider",
"Settings",
"Product",
"Status"

],
"members":{
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The <code>IdentityProvider</code> resource contains information about an identity provider. "
},
"Settings":{
"shape":"Settings",
"documentation":" The <code>Settings</code> resource contains details about the registered identity providers product related configuration settings, such as the subnets to provision VPC endpoints. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. "
},
"Status":{
"shape":"String",
"documentation":" The status of the identity provider. "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider. "
},
"FailureMessage":{
"shape":"String",

"documentation":" The failure message associated with an identity provider. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" The AWS Account ID of the owner of this resource. "
}
},
"documentation":" Describes an identity provider. "
},
"IdentityProviderSummaryList":{
"type":"list",
"member":{"shape":"IdentityProviderSummary"}
},
"InstanceSummary":{
"type":"structure",
"required":[

"InstanceId",
"Status",
"Products"
],
"members":{
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance, which provides user-based subscriptions. "
},
"Status":{
"shape":"String",
"documentation":" The status of an EC2 instance resource. "
},
"Products":{
"shape":"StringList",
"documentation":" A list of provided user-based
subscription products. "
},
"LastStatusCheckDate":{
"shape":"String",
"documentation":" The date of the last status check. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for an EC2 instance. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" The AWS Account ID of the owner of this resource. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The <code>IdentityProvider</code> resource specifies details about the identity
provider. "
}
},
"documentation":" Describes an EC2 instance providing user-based subscriptions. "
},
"InstanceSummaryList":{
"type":"list",
"member":{"shape":"InstanceSummary"}
},
"InstanceUserSummary":{
"type":"structure",
"required":[
"Username",
"InstanceId",

"IdentityProvider",
"Status"
],
"members":{
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for the user. "
},
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance that provides user-based subscriptions. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" The <code>IdentityProvider</code> resource specifies details about the identity provider. "
},
"Status":{
"shape":"String",
"documentation":" The status of a user associated with an EC2 instance. "
},
"InstanceUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) that identifies the instance user. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for users of an EC2 instance. "
},
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user information for the product subscription. "
},
"AssociationDate":{
"shape":"String",
"documentation":" The date a user was associated with an EC2 instance. "
},
"DisassociationDate":{
"shape":"String",
"documentation":" The date a user was disassociated from an EC2 instance. "
}
},
"documentation":" Describes users of an EC2 instance providing user-based subscriptions. "
},
"InstanceUserSummaryList":{
"type":"list",

"member":{"shape":"InstanceUserSummary"}
},
"InternalServerException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" An exception occurred with the service. ",
"error":{"httpStatusCode":500},
"exception":true,
"fault":true
},
"IpV4":{
"type":"string",
"pattern":"(?:(25[0-5]|2[0-4][0-9]|1[0-9][0-9]|[1-9][0-9]|[0-9])(\\.(?!$)|$)){4}"
},
"IpV6":{
"type":"string",
"pattern":"([0-9a-fA-F]{1,4}:){7}[0-9a-fA-F]{1,4}|::|::[0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,7}:|([0-9a-fA-F]{1,4}:){1,6}:[0-9a-fA-F]{1,4}"
},
"LicenseServer":{
"type":"structure",
"members":{
"ProvisioningStatus":{
"shape":"LicenseServerEndpointProvisioningStatus",
"documentation":" The current state of the provisioning process for the RDS license server. "
},
"HealthStatus":{
"shape":"LicenseServerHealthStatus",
"documentation":" The health status of the RDS license server. "
},
"Ipv4Address":{
"shape":"String",
"documentation":" A list of domain IPv4 addresses that are used for the RDS license server. "

},
"Ipv6Address":{
"shape":"String",
"documentation":" A list of domain IPv6 addresses that are used for the RDS license server. "
}
},
"documentation":" Information about a Remote Desktop Services (RDS) license server. "
},
"LicenseServerEndpoint":{
"type":"structure",
"members":{
"IdentityProviderArn":{

"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the identity provider that's associated with the RDS license server endpoint. "
},
"ServerType":{
"shape":"ServerType",
"documentation":" The type of license server. "
},
"ServerEndpoint":{
"shape":"ServerEndpoint",
"documentation":" The <code>ServerEndpoint</code> resource contains the network address of the RDS license server endpoint. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The
message associated with the provisioning status, if there is one. "
},
"LicenseServerEndpointId":{
"shape":"LicenseServerEndpointId",
"documentation":" The ID of the license server endpoint. "
},
"LicenseServerEndpointArn":{
"shape":"Arn",
"documentation":" The ARN of the <code>ServerEndpoint</code> resource for the RDS license server. "
},
"LicenseServerEndpointProvisioningStatus":{
"shape":"LicenseServerEndpointProvisioningStatus",
"documentation":" The current state of the provisioning process for the RDS license server endpoint "
},
"LicenseServers":{
"shape":"LicenseServerList",
"documentation":" An array of <code>LicenseServer</code> resources that represent the license servers that are accessed through this endpoint. "
},
"CreationTime":{
"shape":"Timestamp",
"documentation":" The
timestamp when License Manager created the license server endpoint. "
}
},
"documentation":" Contains details about a network endpoint for a Remote Desktop Services (RDS) license server. "
},
"LicenseServerEndpointId":{"type":"string"},
"LicenseServerEndpointList":{
"type":"list",

"member":{"shape":"LicenseServerEndpoint"}
},
"LicenseServerEndpointProvisioningStatus":{
"type":"string",
"enum":[
"PROVISIONING",
"PROVISIONING_FAILED",
"PROVISIONED",
"DELETING",
"DELETION_FAILED",
"DELETED"
]
},
"LicenseServerHealthStatus":{
"type":"string",
"enum":[
"HEALTHY",
"UNHEALTHY",
"NOT_APPLICABLE"
]
},
"LicenseServerList":{
"type":"list",
"member":{"shape":"LicenseServer"}
},
"LicenseServerSettings":{
"type":"structure",
"required":[
"ServerType",

"ServerSettings"
],
"members":{
"ServerType":{
"shape":"ServerType",
"documentation":" The type of license server. "
},
"ServerSettings":{
"shape":"ServerSettings",
"documentation":" The <code>ServerSettings</code> resource contains the settings for your server. "
}
},
"documentation":" The settings to configure your license server. "
},
"ListIdentityProvidersRequest":{
"type":"structure",
"members":{
"MaxResults":{

"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Product   DirectoryId "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
}
}
},
"ListIdentityProvidersResponse":{
"type":"structure",
"required":["IdentityProviderSummaries"],
"members":{
"IdentityProviderSummaries":{
"shape":"IdentityProviderSummaryList",
"documentation":" An array of <code>IdentityProviderSummary</code> resources that contain details about the Active Directory identity providers that meet the request criteria. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListInstancesRequest":{
"type":"structure",
"members":{
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated response. "
},
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Status   InstanceId "

```
      }
    }
  },
  "ListInstancesResponse":{
    "type":"structure",
    "members":{
      "InstanceSummaries":{
        "shape":"InstanceSummaryList",
        "documentation":"<p>An array of <code>InstanceSummary</code> resources that contain details about the instances that provide user-based subscriptions and also meet the request criteria.</p>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects.</p>"
      }
    }
  },
  "ListLicenseServerEndpointsRequest":{
    "type":"structure",
    "members":{
      "MaxResults":{
        "shape":"ListLicenseServerEndpointsRequestMaxResultsInteger",
        "documentation":"<p>The maximum number of results to return from a single request.</p>"
      },
      "Filters":{
        "shape":"FilterList",
        "documentation":"<p>You can use the following filters to streamline results:</p> <ul> <li> <p>IdentityProviderArn</p> </li> </ul>"
      },
      "NextToken":{
        "shape":"String",
        "documentation":"<p>A token to specify where to start paginating. This is the nextToken from a previously truncated response.</p>"
      }
    }
  },
  "ListLicenseServerEndpointsRequestMaxResultsInteger":{
    "type":"integer",
    "box":true,
    "max":100,
    "min":1
  },
  "ListLicenseServerEndpointsResponse":{
    "type":"structure",
    "members":{
      "LicenseServerEndpoints":{
```

"shape":"LicenseServerEndpointList",
"documentation":" An array of <code>LicenseServerEndpoint</code> resources that contain detailed information about the RDS License Servers that meet the request criteria. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListProductSubscriptionsRequest":{
"type":"structure",
"required":["IdentityProvider"],
"members":{
"Product":{
"shape":"String",
"documentation":" The
name of the user-based subscription product. Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"Filters":{
"shape":"FilterList",
"documentation":" You can use the following filters to streamline results: <ul> Status   Username   Domain "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously truncated
response. "
}
}
},
"ListProductSubscriptionsResponse":{
"type":"structure",
"members":{
"ProductUserSummaries":{

"shape":"ProductUserSummaryList",
"documentation":" Metadata that describes the list product subscriptions operation. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are additional elements that the service hasn't included in this request. Use this token with the next request to retrieve additional objects. "
}
}
},
"ListTagsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{
"shape":"ResourceArn",
"documentation":" The Amazon Resource Name (ARN) of the resource whose tags you want to retrieve. ",
"location":"uri",
"locationName":"ResourceArn"
}
}
},
"ListTagsForResourceResponse":{
"type":"structure",
"members":{
"Tags":{
"shape":"Tags",
"documentation":" The tags for the specified resource. "
}
}
},
"ListUserAssociationsRequest":{
"type":"structure",
"required":[
"InstanceId",
"IdentityProvider"
],
"members":{
"InstanceId":{
"shape":"String",
"documentation":" The ID of the EC2 instance, which provides user-based subscriptions. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},

"MaxResults":{
"shape":"BoxInteger",
"documentation":" The maximum number of results to return from a single request. "
},
"Filters":{
"shape":"FilterList",
"documentation":" You can
use the following filters to streamline results: <ul> Status   Username
Domain "
},
"NextToken":{
"shape":"String",
"documentation":" A token to specify where to start paginating. This is the nextToken from a previously
truncated response. "
}
}
},
"ListUserAssociationsResponse":{
"type":"structure",
"members":{
"InstanceUserSummaries":{
"shape":"InstanceUserSummaryList",
"documentation":" Metadata that describes the list user association operation. "
},
"NextToken":{
"shape":"String",
"documentation":" The next token used for paginated responses. When this field isn't empty, there are
additional elements that the service hasn't included in this request. Use this token with the next request to retrieve
additional objects. "
}
}
},
"ProductUserSummary":{
"type":"structure",
"required":[
"Username",
"Product",
"IdentityProvider",
"Status"
],
"members":{
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for this product user. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. "

},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Status":{
"shape":"String",
"documentation":" The status of a product for this user. "
},
"ProductUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) for this product user. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The
status message for a product for this user. "
},
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user information for the
product subscription. "
},
"SubscriptionStartDate":{
"shape":"String",
"documentation":" The start date of a subscription. "
},
"SubscriptionEndDate":{
"shape":"String",
"documentation":" The end date of a subscription. "
}
},
"documentation":" A summary of the user-based subscription products for a specific user. "
},
"ProductUserSummaryList":{
"type":"list",
"member":{"shape":"ProductUserSummary"}
},
"RdsSalSettings":{
"type":"structure",
"required":["RdsSalCredentialsProvider"],
"members":{
"RdsSalCredentialsProvider":{
"shape":"CredentialsProvider",
"documentation":" The <code>CredentialsProvider</code>
resource contains a reference to the credentials provider that's used for RDS license server user
administration. "
}

```
    },
    "documentation":"<p>Server settings that are specific to a Remote Desktop Services (RDS) license server.</p>"
  },
  "RegisterIdentityProviderRequest":{
    "type":"structure",
    "required":[
      "IdentityProvider",
      "Product"
    ],
    "members":{
      "IdentityProvider":{
        "shape":"IdentityProvider",
        "documentation":"<p>An object that specifies details for the identity provider to register.</p>"
      },
      "Product":{
        "shape":"String",
        "documentation":"<p>The name of the user-based subscription product.</p> <p>Valid values:
<code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> |
<code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> </p>"
      },
      "Settings":{
        "shape":"Settings",
         "documentation":"<p>The registered identity providers product related configuration settings such as the
subnets to provision VPC endpoints.</p>"
      },
      "Tags":{
        "shape":"Tags",
        "documentation":"<p>The tags that apply to the identity provider's registration.</p>"
      }
    }
  },
  "RegisterIdentityProviderResponse":{
    "type":"structure",
    "required":["IdentityProviderSummary"],
    "members":{
      "IdentityProviderSummary":{
        "shape":"IdentityProviderSummary",
        "documentation":"<p>Metadata that describes the results of an identity provider operation.</p>"
      }
    }
  },
  "ResourceArn":{
    "type":"string",
    "pattern":"arn:([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-\\.]{1,63}):([a-z0-9-
\\.]{1,510})/([a-z0-9-\\.]{1,510})"
  },
  "ResourceNotFoundException":{
    "type":"structure",
```

"members":{
"message":{"shape":"String"}
},
"documentation":" The resource couldn't be found. ",
"error":{
"httpStatusCode":404,
"senderFault":true
},
"exception":true
},
"SecretsManagerCredentialsProvider":{
"type":"structure",
"members":{
"SecretId":{
"shape":"SecretsManagerCredentialsProviderSecretIdString",
"documentation":" The ID of the Secrets Manager secret that contains credentials. "
}
},
"documentation":" Contains a credentials secret that's stored in Secrets Manager. "
},
"SecretsManagerCredentialsProviderSecretIdString":{
"type":"string",
"min":1
},
"SecurityGroup":{
"type":"string",
"max":200,
"min":5,
"pattern":"sg-(([0-9a-z]{8})|([0-9a-z]{17}))"
},
"ServerEndpoint":{
"type":"structure",
"members":{
"Endpoint":{
"shape":"String",
"documentation":" The network address of the endpoint. "

}
},
"documentation":" A network endpoint through which you can access one or more servers. "
},
"ServerSettings":{
"type":"structure",
"members":{
"RdsSalSettings":{
"shape":"RdsSalSettings",
"documentation":" The <code>RdsSalSettings</code> resource contains settings to configure a specific Remote Desktop Services (RDS) license server. "

}
},
"documentation":" Contains settings for a specific server. ",
"union":true
},
"ServerType":{
"type":"string",
"enum":["RDS_SAL"]
},
"ServiceQuotaExceededException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" The request failed because a service quota is exceeded. ",
"exception":true
},
"Settings":{
"type":"structure",
"required":[
"Subnets",
"SecurityGroupId"
],
"members":{
"Subnets":{
"shape":"SettingsSubnetsList",
"documentation":" The subnets defined for the registered identity provider. "
},
"SecurityGroupId":{
"shape":"SecurityGroup",
"documentation":" A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoint for activation servers. "
}
},
"documentation":" The registered identity providers product related configuration settings such as the subnets to provision VPC endpoints, and the security group ID that is associated with the VPC endpoints. The security group should permit inbound TCP port 1688 communication from resources in the VPC. "
},
"SettingsSubnetsList":{
"type":"list",
"member":{"shape":"Subnet"},
"min":1
},
"StartProductSubscriptionRequest":{
"type":"structure",
"required":[
"Username",
"IdentityProvider",

"Product"
],
"members":{
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider of the user. "
},
"IdentityProvider":{
"shape":"IdentityProvider",
"documentation":" An object that specifies details for the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
},
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user for whom to start the product subscription. "
},
"Tags":{
"shape":"Tags",
"documentation":" The tags that apply to the product subscription. "

}
}
},
"StartProductSubscriptionResponse":{
"type":"structure",
"required":["ProductUserSummary"],
"members":{
"ProductUserSummary":{
"shape":"ProductUserSummary",
"documentation":" Metadata that describes the start product subscription operation. "
}
}
},
"StopProductSubscriptionRequest":{
"type":"structure",
"members":{
"Username":{
"shape":"String",
"documentation":" The user name from the identity provider for the user. "
},
"IdentityProvider":{
"shape":"IdentityProvider",

"documentation":" An object that specifies details for the identity provider. "
},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code>
| <code>REMOTE_DESKTOP_SERVICES</code> "
},
"ProductUserArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the product user. "
},
"Domain":{
"shape":"String",
"documentation":" The domain name of the Active Directory that contains the user for whom to stop the product subscription. "
}
}
},
"StopProductSubscriptionResponse":{
"type":"structure",
"required":["ProductUserSummary"],
"members":{
"ProductUserSummary":{
"shape":"ProductUserSummary",
"documentation":" Metadata that describes the start product subscription operation. "
}
}
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"String"}
},
"Subnet":{
"type":"string",
"pattern":"subnet-[a-z0-9]{8,17}.*"
},
"Subnets":{
"type":"list",
"member":{"shape":"Subnet"}
},
"TagKeyList":{
"type":"list",
"member":{"shape":"String"},
"max":50,
"min":0,

```
  "sensitive":true
},
"TagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "Tags"
  ],
  "members":{
    "ResourceArn":{
      "shape":"ResourceArn",
      "documentation":"<p>The Amazon Resource Name (ARN) of the resource that you want to tag.</p>",
      "location":"uri",
      "locationName":"ResourceArn"
    },
    "Tags":{
      "shape":"Tags",
      "documentation":"<p>The tags to apply to the specified resource.</p>"
    }
  }
},
"TagResourceResponse":{
  "type":"structure",
  "members":{}
},
"Tags":{
  "type":"map",
  "key":{"shape":"String"},
  "value":{"shape":"String"},
  "max":50,
  "min":0,
  "sensitive":true
},
"ThrottlingException":{
  "type":"structure",
  "members":{
     "message":{"shape":"String"}
  },
  "documentation":"<p>The request was denied because of request throttling. Retry the request.</p>",
  "exception":true
},
"Timestamp":{"type":"timestamp"},
"UntagResourceRequest":{
  "type":"structure",
  "required":[
    "ResourceArn",
    "TagKeys"
  ],
```

"members":{
"ResourceArn":{
"shape":"ResourceArn",
"documentation":" The Amazon Resource Name (ARN) of the resource that you want to remove tags from. ",
"location":"uri",
"locationName":"ResourceArn"
},
"TagKeys":{
"shape":"TagKeyList",
"documentation":" The tag keys to remove from the resource. ",
"location":"querystring",
"locationName":"tagKeys"
}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{}
},
"UpdateIdentityProviderSettingsRequest":{
"type":"structure",
"required":["UpdateSettings"],
"members":{
"IdentityProvider":{"shape":"IdentityProvider"},
"Product":{
"shape":"String",
"documentation":" The name of the user-based subscription product. Valid values: <code>VISUAL_STUDIO_ENTERPRISE</code> | <code>VISUAL_STUDIO_PROFESSIONAL</code> | <code>OFFICE_PROFESSIONAL_PLUS</code> | <code>REMOTE_DESKTOP_SERVICES</code> "
},
"IdentityProviderArn":{
"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the identity provider to update. "
},
"UpdateSettings":{
"shape":"UpdateSettings",
"documentation":" Updates the registered identity providers product related configuration settings. You can update any combination of settings in a single operation such as the: <ul> Subnets which you want to add to provision VPC endpoints.   Subnets which you want to remove the VPC endpoints from.   Security group ID which permits traffic to the VPC endpoints. "
}
}
},
"UpdateIdentityProviderSettingsResponse":{
"type":"structure",
"required":["IdentityProviderSummary"],
"members":{

"IdentityProviderSummary":{"shape":"IdentityProviderSummary"}
}
},
"UpdateSettings":{
"type":"structure",
"required":[
"AddSubnets",
"RemoveSubnets"
],
"members":{
"AddSubnets":{
"shape":"Subnets",
"documentation":" The ID of one or more subnets in which License Manager will create a VPC endpoint for products that require connectivity to activation servers. "
},
"RemoveSubnets":{
"shape":"Subnets",
"documentation":" The ID of one or more subnets to remove. "
},
"SecurityGroupId":{
"shape":"SecurityGroup",
"documentation":" A security group ID that allows inbound TCP port 1688 communication between resources in your VPC and the VPC endpoints for activation servers. "
}
},
"documentation":" Updates the registered identity providers product related configuration settings such as the subnets to provision VPC endpoints. "
},
"ValidationException":{
"type":"structure",
"members":{
"message":{"shape":"String"}
},
"documentation":" A parameter is not valid. ",
"exception":true
}
},
"documentation":" With License Manager, you can create user-based subscriptions to utilize licensed software with a per user subscription fee on Amazon EC2 instances. "
}
{
"version":"2.0",
"metadata":{
"apiVersion":"2018-08-01",
"endpointPrefix":"license-manager",
"jsonVersion":"1.1",
"protocol":"json",

"protocols":["json"],
"serviceFullName":"AWS License Manager",
"serviceId":"License Manager",
"signatureVersion":"v4",
"targetPrefix":"AWSLicenseManager",
"uid":"license-manager-2018-08-01",
"auth":["aws.auth#sigv4"]
},
"operations":{
"AcceptGrant":{
"name":"AcceptGrant",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"AcceptGrantRequest"},
"output":{"shape":"AcceptGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Accepts
the specified grant. "
},
"CheckInLicense":{
"name":"CheckInLicense",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CheckInLicenseRequest"},
"output":{"shape":"CheckInLicenseResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ConflictException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Checks in the specified license. Check in a license when it is no longer in use. "

},
"CheckoutBorrowLicense":{
"name":"CheckoutBorrowLicense",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CheckoutBorrowLicenseRequest"},
"output":{"shape":"CheckoutBorrowLicenseResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceNotFoundException"},
{"shape":"NoEntitlementsAllowedException"},
{"shape":"EntitlementNotAllowedException"},
{"shape":"UnsupportedDigitalSignatureMethodException"},
{"shape":"RedirectException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Checks out the specified license for offline use. "
},
"CheckoutLicense":{
"name":"CheckoutLicense",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CheckoutLicenseRequest"},
"output":{"shape":"CheckoutLicenseResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceNotFoundException"},
{"shape":"NoEntitlementsAllowedException"},
{"shape":"UnsupportedDigitalSignatureMethodException"},
{"shape":"RedirectException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Checks out the specified license. <note> If the account that created the license is the same that is performing the check out, you must specify the account as the beneficiary. </note>"
},
"CreateGrant":{

"name":"CreateGrant",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CreateGrantRequest"},
"output":{"shape":"CreateGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"}
],
"documentation":" Creates a grant for the specified license. A grant shares the use of license entitlements with a specific Amazon Web Services account, an organization, or an organizational unit (OU). For more information, see Granted licenses in License Manager in the License Manager User Guide. "
},
"CreateGrantVersion":{
"name":"CreateGrantVersion",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CreateGrantVersionRequest"},
"output":{"shape":"CreateGrantVersionResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Creates a new version of the specified grant. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
},
"CreateLicense":{
"name":"CreateLicense",
"http":{
"method":"POST",
"requestUri":"/"
},

"input":{"shape":"CreateLicenseRequest"},
"output":{"shape":"CreateLicenseResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"RedirectException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Creates a license. "
},
"CreateLicenseConfiguration":{
"name":"CreateLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CreateLicenseConfigurationRequest"},
"output":{"shape":"CreateLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Creates a license configuration. A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU,
or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), license affinity to host (how long a license must be associated with a host), and the number of licenses purchased and used. "
},
"CreateLicenseConversionTaskForResource":{
"name":"CreateLicenseConversionTaskForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CreateLicenseConversionTaskForResourceRequest"},
"output":{"shape":"CreateLicenseConversionTaskForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ValidationException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},

{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Creates a new license conversion task. "
},
"CreateLicenseManagerReportGenerator":{
"name":"CreateLicenseManagerReportGenerator",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CreateLicenseManagerReportGeneratorRequest"},
"output":{"shape":"CreateLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Creates a report generator. "
},
"CreateLicenseVersion":{
"name":"CreateLicenseVersion",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CreateLicenseVersionRequest"},
"output":{"shape":"CreateLicenseVersionResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"},
{"shape":"RedirectException"},
{"shape":"ConflictException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Creates a new version of the specified license. "
},
"CreateToken":{
"name":"CreateToken",
"http":{

"method":"POST",
"requestUri":"/"
},
"input":{"shape":"CreateTokenRequest"},
"output":{"shape":"CreateTokenResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"ResourceNotFoundException"},
{"shape":"RedirectException"}
],
"documentation":" Creates a long-lived token. A refresh token is a JWT token used to get an access token. With an access token, you can call AssumeRoleWithWebIdentity to get role credentials that you can use to call License Manager to manage the specified license. "
},
"DeleteGrant":{
"name":"DeleteGrant",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"DeleteGrantRequest"},
"output":{"shape":"DeleteGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Deletes the specified grant. "
},
"DeleteLicense":{
"name":"DeleteLicense",

"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"DeleteLicenseRequest"},
"output":{"shape":"DeleteLicenseResponse"},
"errors":[

{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"RedirectException"},
{"shape":"ConflictException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Deletes the specified license. "
},
"DeleteLicenseConfiguration":{
"name":"DeleteLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"DeleteLicenseConfigurationRequest"},
"output":{"shape":"DeleteLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Deletes the specified license configuration. You cannot delete a license configuration that is in use. "
},
"DeleteLicenseManagerReportGenerator":{
"name":"DeleteLicenseManagerReportGenerator",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"DeleteLicenseManagerReportGeneratorRequest"},
"output":{"shape":"DeleteLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"}

],
"documentation":" Deletes the specified report generator. This action deletes the report generator, which stops it from generating future reports. The action cannot be reversed. It has no effect on the previous reports from this generator. "
},
"DeleteToken":{
"name":"DeleteToken",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"DeleteTokenRequest"},
"output":{"shape":"DeleteTokenResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"ResourceNotFoundException"},
{"shape":"RedirectException"}
],
"documentation":" Deletes the specified token. Must be called in the license home Region. "
},
"ExtendLicenseConsumption":{
"name":"ExtendLicenseConsumption",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ExtendLicenseConsumptionRequest"},
"output":{"shape":"ExtendLicenseConsumptionResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Extends the expiration date for license consumption. "
},
"GetAccessToken":{
"name":"GetAccessToken",
"http":{
"method":"POST",
"requestUri":"/"

},
"input":{"shape":"GetAccessTokenRequest"},
"output":{"shape":"GetAccessTokenResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Gets a temporary access token to use with AssumeRoleWithWebIdentity. Access tokens are valid for one hour. "
},
"GetGrant":{
"name":"GetGrant",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetGrantRequest"},
"output":{"shape":"GetGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Gets detailed information about the specified grant. "
},
"GetLicense":{
"name":"GetLicense",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseRequest"},
"output":{"shape":"GetLicenseResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],

"documentation":" Gets detailed information about the specified license. "
},
"GetLicenseConfiguration":{
"name":"GetLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseConfigurationRequest"},
"output":{"shape":"GetLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Gets detailed information about the specified license configuration. "
},
"GetLicenseConversionTask":{
"name":"GetLicenseConversionTask",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseConversionTaskRequest"},
"output":{"shape":"GetLicenseConversionTaskResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Gets information about the specified license type conversion task. "
},
"GetLicenseManagerReportGenerator":{
"name":"GetLicenseManagerReportGenerator",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseManagerReportGeneratorRequest"},
"output":{"shape":"GetLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},

{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Gets information about the specified report generator. "
},
"GetLicenseUsage":{
"name":"GetLicenseUsage",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetLicenseUsageRequest"},
"output":{"shape":"GetLicenseUsageResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Gets detailed information about the usage of the specified license. "
},
"GetServiceSettings":{
"name":"GetServiceSettings",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"GetServiceSettingsRequest"},
"output":{"shape":"GetServiceSettingsResponse"},
"errors":[
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Gets the License Manager settings for the current Region. "
},
"ListAssociationsForLicenseConfiguration":{
"name":"ListAssociationsForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},

"input":{"shape":"ListAssociationsForLicenseConfigurationRequest"},
"output":{"shape":"ListAssociationsForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the resource associations for the specified license configuration. Resource associations need not consume licenses from a license configuration. For example, an AMI or a stopped instance might not consume a license (depending on the license rules). "
},
"ListDistributedGrants":{
"name":"ListDistributedGrants",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListDistributedGrantsRequest"},
"output":{"shape":"ListDistributedGrantsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the grants distributed for the specified license. "
},
"ListFailuresForLicenseConfigurationOperations":{
"name":"ListFailuresForLicenseConfigurationOperations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListFailuresForLicenseConfigurationOperationsRequest"},
"output":{"shape":"ListFailuresForLicenseConfigurationOperationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],

"documentation":" Lists
the license configuration operations that failed. "
},
"ListLicenseConfigurations":{
"name":"ListLicenseConfigurations",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseConfigurationsRequest"},
"output":{"shape":"ListLicenseConfigurationsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license configurations for your account. "
},
"ListLicenseConversionTasks":{
"name":"ListLicenseConversionTasks",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseConversionTasksRequest"},
"output":{"shape":"ListLicenseConversionTasksResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the license type conversion tasks for your account. "
},
"ListLicenseManagerReportGenerators":{
"name":"ListLicenseManagerReportGenerators",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseManagerReportGeneratorsRequest"},
"output":{"shape":"ListLicenseManagerReportGeneratorsResponse"},
"errors":[
{"shape":"ValidationException"},

{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"RateLimitExceededException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"}
],
"documentation":" Lists the report generators for your account. "
},
"ListLicenseSpecificationsForResource":{
"name":"ListLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseSpecificationsForResourceRequest"},
"output":{"shape":"ListLicenseSpecificationsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Describes the license configurations for the specified resource. "
},
"ListLicenseVersions":{
"name":"ListLicenseVersions",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListLicenseVersionsRequest"},
"output":{"shape":"ListLicenseVersionsResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists all versions of the specified license. "
},
"ListLicenses":{
"name":"ListLicenses",
"http":{
"method":"POST",

"requestUri":"/"
},
"input":{"shape":"ListLicensesRequest"},
"output":{"shape":"ListLicensesResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Lists the licenses for your account. "
},
"ListReceivedGrants":{
"name":"ListReceivedGrants",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsRequest"},
"output":{"shape":"ListReceivedGrantsResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists grants that are received. Received grants are grants created while specifying the recipient as this Amazon Web Services account, your organization, or an organizational unit (OU) to which this member account belongs. "
},
"ListReceivedGrantsForOrganization":{
"name":"ListReceivedGrantsForOrganization",
"http":{
"method":"POST",

"requestUri":"/"
},
"input":{"shape":"ListReceivedGrantsForOrganizationRequest"},
"output":{"shape":"ListReceivedGrantsForOrganizationResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},

{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the grants received for all accounts in the organization. "
},
"ListReceivedLicenses":{
"name":"ListReceivedLicenses",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesRequest"},
"output":{"shape":"ListReceivedLicensesResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists received licenses. "
},
"ListReceivedLicensesForOrganization":{
"name":"ListReceivedLicensesForOrganization",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListReceivedLicensesForOrganizationRequest"},
"output":{"shape":"ListReceivedLicensesForOrganizationResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the licenses received
for all accounts in the organization. "
},
"ListResourceInventory":{
"name":"ListResourceInventory",

"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListResourceInventoryRequest"},
"output":{"shape":"ListResourceInventoryResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"FilterLimitExceededException"},
{"shape":"FailedDependencyException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists resources managed using Systems Manager inventory. "
},
"ListTagsForResource":{
"name":"ListTagsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTagsForResourceRequest"},
"output":{"shape":"ListTagsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists the tags for the specified resource. For more information about tagging support in License Manager, see the TagResource operation. "
},
"ListTokens":{
"name":"ListTokens",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListTokensRequest"},
"output":{"shape":"ListTokensResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},

{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"}
],

"documentation":" Lists your tokens. "
},
"ListUsageForLicenseConfiguration":{
"name":"ListUsageForLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"ListUsageForLicenseConfigurationRequest"},
"output":{"shape":"ListUsageForLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"FilterLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Lists all license usage records for a license configuration, displaying license consumption details by resource at a selected point in time. Use this action to audit the current license consumption for any license inventory and configuration. "
},
"RejectGrant":{
"name":"RejectGrant",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"RejectGrantRequest"},
"output":{"shape":"RejectGrantResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},
{"shape":"ServerInternalException"}
],
"documentation":" Rejects the specified grant. "
},
"TagResource":{
"name":"TagResource",
"http":{

"method":"POST",
"requestUri":"/"
},
"input":{"shape":"TagResourceRequest"},
"output":{"shape":"TagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Adds the specified tags to the specified resource. The following resources support tagging in License Manager: <ul> Licenses   Grants   License configurations   Report generators "
},
"UntagResource":{
"name":"UntagResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UntagResourceRequest"},
"output":{"shape":"UntagResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"}
],
"documentation":" Removes the specified tags from the specified resource. "
},
"UpdateLicenseConfiguration":{
"name":"UpdateLicenseConfiguration",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseConfigurationRequest"},
"output":{"shape":"UpdateLicenseConfigurationResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ResourceLimitExceededException"},

{"shape":"ConflictException"}
],
"documentation":" Modifies the attributes of an existing license configuration. "
},
"UpdateLicenseManagerReportGenerator":{
"name":"UpdateLicenseManagerReportGenerator",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseManagerReportGeneratorRequest"},
"output":{"shape":"UpdateLicenseManagerReportGeneratorResponse"},
"errors":[
{"shape":"ValidationException"},
{"shape":"InvalidParameterValueException"},
{"shape":"RateLimitExceededException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"ResourceNotFoundException"},
{"shape":"ResourceLimitExceededException"}
],
"documentation":" Updates a report generator. After you make changes to a report generator, it starts generating new reports within 60 minutes of being updated. "
},
"UpdateLicenseSpecificationsForResource":{
"name":"UpdateLicenseSpecificationsForResource",
"http":{
"method":"POST",
"requestUri":"/"
},
"input":{"shape":"UpdateLicenseSpecificationsForResourceRequest"},
"output":{"shape":"UpdateLicenseSpecificationsForResourceResponse"},
"errors":[
{"shape":"InvalidParameterValueException"},
{"shape":"InvalidResourceStateException"},
{"shape":"LicenseUsageException"},
{"shape":"ServerInternalException"},
{"shape":"AuthorizationException"},
{"shape":"AccessDeniedException"},
{"shape":"RateLimitExceededException"},
{"shape":"ConflictException"}
],
"documentation":" Adds or removes the specified license configurations for the specified Amazon Web Services resource. You can update the license specifications of AMIs, instances, and hosts. You cannot update the license specifications for launch templates and CloudFormation templates, as they send license configurations to the operation that creates the resource. "
},

```
  "UpdateServiceSettings":{
    "name":"UpdateServiceSettings",
    "http":{
      "method":"POST",
      "requestUri":"/"
    },
    "input":{"shape":"UpdateServiceSettingsRequest"},
    "output":{"shape":"UpdateServiceSettingsResponse"},
    "errors":[
      {"shape":"InvalidParameterValueException"},
      {"shape":"ServerInternalException"},
       {"shape":"AuthorizationException"},
      {"shape":"AccessDeniedException"},
      {"shape":"RateLimitExceededException"}
    ],
    "documentation":"<p>Updates License Manager settings for the current Region.</p>"
  }
},
"shapes":{
  "AcceptGrantRequest":{
    "type":"structure",
    "required":["GrantArn"],
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      }
    }
  },
  "AcceptGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Grant ARN.</p>"
      },
      "Status":{
        "shape":"GrantStatus",
        "documentation":"<p>Grant status.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>Grant version.</p>"
      }
    }
  },
  "AccessDeniedException":{
    "type":"structure",
```

"members":{
"Message":{"shape":"Message"}
},
"documentation":" Access to resource denied. ",
"exception":true
},
"ActivationOverrideBehavior":{
"type":"string",
"enum":[
"DISTRIBUTED_GRANTS_ONLY",
"ALL_GRANTS_PERMITTED_BY_ISSUER"
]
},
"AllowedOperation":{
"type":"string",
"enum":[
"CreateGrant",
"CheckoutLicense",
"CheckoutBorrowLicense",
"CheckInLicense",
"ExtendConsumptionLicense",
"ListPurchasedLicenses",
"CreateToken"
]
},
"AllowedOperationList":{
"type":"list",
"member":{"shape":"AllowedOperation"},
"max":8,
"min":1
},
"Arn":{
"type":"string",
"max":2048,
"pattern":"^arn:aws[a-zA-Z-]*:[A-Za-z0-9][A-Za-z0-9_/.-]{0,62}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9_/.-]{0,63}:[A-Za-z0-9][A-Za-z0-9:_/+=,@.-]{0,1023}$"
},
"ArnList":{
"type":"list",
"member":{"shape":"Arn"}
},

"AuthorizationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The Amazon Web Services user account does not have permission to perform the action.

Check the IAM policy associated with this account. ",
    "exception":true
  },
  "AutomatedDiscoveryInformation":{
    "type":"structure",
    "members":{
      "LastRunTime":{
        "shape":"DateTime",
        "documentation":" Time that automated discovery last ran. "
      }
    },
    "documentation":" Describes automated discovery. "
  },
  "Boolean":{"type":"boolean"},
  "BorrowConfiguration":{
    "type":"structure",
    "required":[
      "AllowEarlyCheckIn",
      "MaxTimeToLiveInMinutes"
    ],
    "members":{
      "AllowEarlyCheckIn":{
        "shape":"BoxBoolean",
        "documentation":" Indicates whether early check-ins are allowed. "
      },
      "MaxTimeToLiveInMinutes":{
         "shape":"BoxInteger",
        "documentation":" Maximum time for the borrow configuration, in minutes. "
      }
    },
    "documentation":" Details about a borrow configuration. "
  },
  "BoxBoolean":{"type":"boolean"},
  "BoxInteger":{"type":"integer"},
  "BoxLong":{"type":"long"},
  "CheckInLicenseRequest":{
    "type":"structure",
    "required":["LicenseConsumptionToken"],
    "members":{
      "LicenseConsumptionToken":{
        "shape":"String",
        "documentation":" License consumption token. "
      },
      "Beneficiary":{
        "shape":"String",
        "documentation":" License beneficiary. "
      }
    }

},
"CheckInLicenseResponse":{
"type":"structure",
"members":{}
},
"CheckoutBorrowLicenseRequest":{
"type":"structure",
"required":[
"LicenseArn",
"Entitlements",
"DigitalSignatureMethod",
"ClientToken"
],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. The license must use the borrow consumption configuration. "
},
"Entitlements":{
"shape":"EntitlementDataList",
"documentation":" License entitlements. Partial checkouts are not supported. "
},
"DigitalSignatureMethod":{
"shape":"DigitalSignatureMethod",
"documentation":" Digital signature method. The possible value is JSON Web Signature (JWS) algorithm PS384. For more information, see RFC 7518 Digital Signature with RSASSA-PSS. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},
"CheckoutMetadata":{
"shape":"MetadataList",
"documentation":" Information about constraints. "
},
"ClientToken":{

"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
}
}
},
"CheckoutBorrowLicenseResponse":{
"type":"structure",
"members":{

"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"EntitlementsAllowed":{
"shape":"EntitlementDataList",
"documentation":" Allowed license entitlements. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
},
"SignedToken":{
"shape":"SignedToken",
"documentation":" Signed token. "
},
"IssuedAt":{
"shape":"ISO8601DateTime",
"documentation":" Date and time
at which the license checkout is issued. "
},
"Expiration":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license checkout expires. "
},
"CheckoutMetadata":{
"shape":"MetadataList",
"documentation":" Information about constraints. "
}
}
},
"CheckoutLicenseRequest":{
"type":"structure",
"required":[
"ProductSKU",
"CheckoutType",
"KeyFingerprint",
"Entitlements",
"ClientToken"
],
"members":{
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "

},
"CheckoutType":{
"shape":"CheckoutType",
"documentation":" Checkout type. "
},
"KeyFingerprint":{
"shape":"String",
"documentation":" Key fingerprint identifying the license. "
},
"Entitlements":{

"shape":"EntitlementDataList",
"documentation":" License entitlements. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"NodeId":{
"shape":"String",
"documentation":" Node ID. "
}
}
},
"CheckoutLicenseResponse":{
"type":"structure",
"members":{
"CheckoutType":{
"shape":"CheckoutType",
"documentation":" Checkout type. "
},
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"EntitlementsAllowed":{
"shape":"EntitlementDataList",
"documentation":" Allowed license entitlements. "
},
"SignedToken":{
"shape":"SignedToken",
"documentation":" Signed token. "
},

```
    "NodeId":{
      "shape":"String",
      "documentation":"<p>Node ID.</p>"
    },
    "IssuedAt":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license checkout is issued.</p>"
    },
    "Expiration":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date and time at which the license checkout expires.</p>"
    },
    "LicenseArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name (ARN) of the checkout license.</p>"
    }
  }
},
"CheckoutType":{
  "type":"string",
  "enum":[
    "PROVISIONAL",
    "PERPETUAL"
  ]
},
"ClientRequestToken":{
  "type":"string",
  "max":36,
  "min":1
},
"ClientToken":{
  "type":"string",
  "max":2048,
  "pattern":"\\S+"
 },
"ConflictException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>There was a conflict processing the request. Try your request again.</p>",
  "exception":true
},
"ConsumedLicenseSummary":{
  "type":"structure",
  "members":{
    "ResourceType":{
      "shape":"ResourceType",
```

"documentation":" Resource type of the resource consuming a license. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed by the resource. "
}
},
"documentation":" Details about license consumption. "
},
"ConsumedLicenseSummaryList":{
"type":"list",
"member":{"shape":"ConsumedLicenseSummary"}
},
"ConsumptionConfiguration":{
"type":"structure",
"members":{
"RenewType":{
"shape":"RenewType",
"documentation":" Renewal frequency. "
},
"ProvisionalConfiguration":{
"shape":"ProvisionalConfiguration",
"documentation":" Details about a provisional configuration. "
},
"BorrowConfiguration":{
"shape":"BorrowConfiguration",
"documentation":" Details about a borrow configuration. "
}
},
"documentation":" Details about a consumption configuration. "
},
"CreateGrantRequest":{
"type":"structure",
"required":[
"ClientToken",
"GrantName",
"LicenseArn",
"Principals",
"HomeRegion",
"AllowedOperations"
],
"members":{
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"GrantName":{

"shape":"String",
"documentation":" Grant name. "
},
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"Principals":{
"shape":"PrincipalArnList",
"documentation":" The grant principals. You can specify one of the following as an Amazon Resource Name (ARN): <ul> An Amazon Web Services account, which includes only the account specified.   An organizational unit (OU), which includes all accounts in the OU.   An organization, which will include all accounts across your organization. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the grant. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed operations for the grant. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the grant.
For more information about tagging support in License Manager, see the TagResource operation. "
}
}
},
"CreateGrantResponse":{
"type":"structure",
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}

```
  },
  "CreateGrantVersionRequest":{
    "type":"structure",
    "required":[
      "ClientToken",
      "GrantArn"
    ],
    "members":{
      "ClientToken":{
        "shape":"ClientToken",
        "documentation":"<p>Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request.</p>"
      },
      "GrantArn":{
         "shape":"Arn",
        "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
      },
      "GrantName":{
        "shape":"String",
        "documentation":"<p>Grant name.</p>"
      },
      "AllowedOperations":{
        "shape":"AllowedOperationList",
        "documentation":"<p>Allowed operations for the grant.</p>"
      },
      "Status":{
        "shape":"GrantStatus",
        "documentation":"<p>Grant status.</p>"
      },
      "StatusReason":{
        "shape":"StatusReasonMessage",
        "documentation":"<p>Grant status reason.</p>"
      },
      "SourceVersion":{
        "shape":"String",
        "documentation":"<p>Current version of the grant.</p>"
      },
      "Options":{
        "shape":"Options",
        "documentation":"<p>The options specified for the grant.</p>"
      }
    }
  },
  "CreateGrantVersionResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{
```

"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" New version of the grant. "
}
}
},
"CreateLicenseConfigurationRequest":{
"type":"structure",
"required":[
"Name",
"LicenseCountingType"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",
"documentation":" Dimension used to track the license inventory. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number
of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Indicates whether hard or soft license enforcement is used. Exceeding a hard limit blocks the launch of new instances. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. The syntax is #name=value (for example, #allowedTenancy=EC2-DedicatedHost). The available rules vary by dimension, as follows.   <code>Cores</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumCores</code> | <code>minimumCores</code>   <code>Instances</code>

dimension: <code>allowedTenancy</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   <code>Sockets</code> dimension: <code>allowedTenancy</code> | <code>licenseAffinityToHost</code> | <code>maximumSockets</code> | <code>minimumSockets</code>   <code>vCPUs</code> dimension: <code>allowedTenancy</code> | <code>honorVcpuOptimization</code> | <code>maximumVcpus</code> | <code>minimumVcpus</code>   The unit for <code>licenseAffinityToHost</code> is days and the range is 1 to 180. The possible values for <code>allowedTenancy</code> are <code>EC2-Default</code>, <code>EC2-DedicatedHost</code>, and <code>EC2-DedicatedInstance</code>. The possible values for <code>honorVcpuOptimization</code> are <code>True</code> and <code>False</code>. "
      },
      "Tags":{
        "shape":"TagList",
        "documentation":" Tags to add to the license configuration. "
      },
      "DisassociateWhenNotFound":{
        "shape":"BoxBoolean",
        "documentation":" When true, disassociates a resource when software is uninstalled. "
      },
      "ProductInformationList":{
        "shape":"ProductInformationList",
        "documentation":" Product information. "
      }
    }
  },
  "CreateLicenseConfigurationResponse":{
    "type":"structure",
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":" Amazon Resource Name (ARN) of the license configuration. "
      }
    }
  },
  "CreateLicenseConversionTaskForResourceRequest":{
    "type":"structure",
    "required":[
      "ResourceArn",
      "SourceLicenseContext",
      "DestinationLicenseContext"
    ],
    "members":{
      "ResourceArn":{
        "shape":"Arn",
        "documentation":" Amazon Resource Name (ARN) of the resource you are converting the license type for. "
      },
      "SourceLicenseContext":{
        "shape":"LicenseConversionContext",

"documentation":" Information that identifies the license type you are converting from. For the structure of the source license, see Convert
 a license type using the CLI in the License Manager User Guide. "
      },
      "DestinationLicenseContext":{
        "shape":"LicenseConversionContext",
        "documentation":" Information that identifies the license type you are converting to. For the structure of the destination license, see Convert a license type using the CLI in the License Manager User Guide. "
      }
    }
  },
  "CreateLicenseConversionTaskForResourceResponse":{
    "type":"structure",
    "members":{
      "LicenseConversionTaskId":{
        "shape":"LicenseConversionTaskId",
        "documentation":" The ID of the created license type conversion task. "
      }
    }
  },
  "CreateLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":[

  "ReportGeneratorName",
      "Type",
      "ReportContext",
      "ReportFrequency",
      "ClientToken"
    ],
    "members":{
      "ReportGeneratorName":{
        "shape":"ReportGeneratorName",
        "documentation":" Name of the report generator. "
      },
      "Type":{
        "shape":"ReportTypeList",
        "documentation":" Type of reports to generate. The following report types an be generated: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
      },
      "ReportContext":{
        "shape":"ReportContext",
        "documentation":" Defines the type of license configuration the report generator tracks. "

},
"ReportFrequency":{
"shape":"ReportFrequency",
"documentation":" Frequency
by which reports are generated. Reports can be generated daily, monthly, or weekly. "
},
"ClientToken":{
"shape":"ClientRequestToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the
request. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the report generator. "
}
}
},
"CreateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the new report generator. "
}
}
},
"CreateLicenseRequest":{
"type":"structure",
"required":[
"LicenseName",
"ProductName",

"ProductSKU",
"Issuer",
"HomeRegion",
"Validity",
"Entitlements",
"Beneficiary",
"ConsumptionConfiguration",
"ClientToken"
],
"members":{
"LicenseName":{
"shape":"String",

"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"Issuer",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region for the license. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Information about the license. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags to add to the license. For more information about tagging

support in License Manager, see the TagResource operation. "
      }
    }
  },
  "CreateLicenseResponse":{
    "type":"structure",
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":" Amazon Resource Name (ARN) of the license. "
      },
      "Status":{
        "shape":"LicenseStatus",
        "documentation":" License status. "
      },
      "Version":{
        "shape":"String",
        "documentation":" License version. "
      }
    }
  },
  "CreateLicenseVersionRequest":{
    "type":"structure",
    "required":[
      "LicenseArn",
      "LicenseName",
      "ProductName",
      "Issuer",
      "HomeRegion",
      "Validity",
      "Entitlements",
      "ConsumptionConfiguration",
      "Status",
      "ClientToken"
    ],
    "members":{
      "LicenseArn":{
        "shape":"Arn",
        "documentation":" Amazon Resource Name (ARN) of the license. "
      },
      "LicenseName":{
        "shape":"String",
        "documentation":" License name. "
      },
      "ProductName":{
        "shape":"String",
        "documentation":" Product name. "

},
"Issuer":{
"shape":"Issuer",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the license. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Information about the license. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. Choose a provisional configuration for workloads running with continuous connectivity. Choose a borrow configuration for workloads with offline usage. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"SourceVersion":{
"shape":"String",
"documentation":" Current version of the license. "
}
}
},
"CreateLicenseVersionResponse":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" License ARN. "

},
"Version":{
"shape":"String",
"documentation":" New version of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
}
}
},
"CreateTokenRequest":{
"type":"structure",
"required":[
"LicenseArn",
"ClientToken"
],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. The ARN is mapped to the aud claim of the JWT token. "
},
"RoleArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Name (ARN) of the IAM roles to embed in the token. License Manager does not check whether the roles are in use. "
},
"ExpirationInDays":{
"shape":"Integer",
"documentation":" Token expiration, in days, counted from token creation. The default is 365 days. "
},

"TokenProperties":{
"shape":"MaxSize3StringList",
"documentation":" Data specified by the caller to be included in the JWT token. The data is mapped to the amr claim of the JWT token. "
},
"ClientToken":{
"shape":"ClientToken",
"documentation":" Idempotency token, valid for 10 minutes. "
}
}
},
"CreateTokenResponse":{
"type":"structure",
"members":{
"TokenId":{

"shape":"String",
"documentation":" Token ID. "
},
"TokenType":{
"shape":"TokenType",
"documentation":" Token type. "
},
"Token":{
"shape":"TokenString",
"documentation":" Refresh token, encoded as a JWT token. "
}
}
},
"DateTime":{"type":"timestamp"},
"DatetimeRange":{
"type":"structure",
"required":["Begin"],
"members":{
"Begin":{
"shape":"ISO8601DateTime",
"documentation":" Start of the time range. "
},
"End":{
"shape":"ISO8601DateTime",
"documentation":" End of the time range. "
}
},
"documentation":" Describes a time range, in ISO8601-UTC format. "
},
"DeleteGrantRequest":{
"type":"structure",
"required":[
"GrantArn",
"Version"
],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"StatusReason":{
"shape":"StatusReasonMessage",
"documentation":" The Status reason for the delete request. "
},
"Version":{
"shape":"String",
"documentation":" Current version of the grant. "
}

```
    }
  },
  "DeleteGrantResponse":{
    "type":"structure",
    "members":{
      "GrantArn":{
        "shape":"Arn",
        "documentation":"<p>Grant
ARN.</p>"
      },
      "Status":{
        "shape":"GrantStatus",
        "documentation":"<p>Grant status.</p>"
      },
      "Version":{
        "shape":"String",
        "documentation":"<p>Grant version.</p>"
      }
    }
  },
  "DeleteLicenseConfigurationRequest":{
    "type":"structure",
    "required":["LicenseConfigurationArn"],
    "members":{
      "LicenseConfigurationArn":{
        "shape":"String",
        "documentation":"<p>ID of the license configuration.</p>"
      }
    }
  },
  "DeleteLicenseConfigurationResponse":{
    "type":"structure",
    "members":{}
  },
  "DeleteLicenseManagerReportGeneratorRequest":{
    "type":"structure",
    "required":["LicenseManagerReportGeneratorArn"],
    "members":{
      "LicenseManagerReportGeneratorArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the report generator to be deleted.</p>"
      }
    }
  },

  "DeleteLicenseManagerReportGeneratorResponse":{
    "type":"structure",
    "members":{}
```

```
},
"DeleteLicenseRequest":{
  "type":"structure",
  "required":[
    "LicenseArn",
    "SourceVersion"
  ],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "SourceVersion":{
      "shape":"String",
      "documentation":"<p>Current version of the license.</p>"
    }
  }
},
"DeleteLicenseResponse":{
  "type":"structure",
  "members":{
    "Status":{
      "shape":"LicenseDeletionStatus",
      "documentation":"<p>License status.</p>"
    },
    "DeletionDate":{
      "shape":"ISO8601DateTime",
      "documentation":"<p>Date when the license is deleted.</p>"
    }
  }
},
"DeleteTokenRequest":{
  "type":"structure",
  "required":["TokenId"],
  "members":{
    "TokenId":{
       "shape":"String",
      "documentation":"<p>Token ID.</p>"
    }
  }
},
"DeleteTokenResponse":{
  "type":"structure",
  "members":{}
},
"DigitalSignatureMethod":{
  "type":"string",
  "enum":["JWT_PS384"]
```

```
  },
  "Entitlement":{
    "type":"structure",
    "required":[
      "Name",
      "Unit"
    ],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Entitlement name.</p>"
      },
      "Value":{
        "shape":"String",
        "documentation":"<p>Entitlement resource. Use only if the unit is None.</p>"
      },
      "MaxCount":{
        "shape":"Long",
        "documentation":"<p>Maximum entitlement count. Use if the unit is not None.</p>"
      },
      "Overage":{
        "shape":"BoxBoolean",
        "documentation":"<p>Indicates whether overages are allowed.</p>"
      },
      "Unit":{
        "shape":"EntitlementUnit",
        "documentation":"<p>Entitlement
unit.</p>"
      },
      "AllowCheckIn":{
        "shape":"BoxBoolean",
        "documentation":"<p>Indicates whether check-ins are allowed.</p>"
      }
    },
    "documentation":"<p>Describes a resource entitled for use with a license.</p>"
  },
  "EntitlementData":{
    "type":"structure",
    "required":[
      "Name",
      "Unit"
    ],
    "members":{
      "Name":{
        "shape":"String",
        "documentation":"<p>Entitlement data name.</p>"
      },
      "Value":{
```

```
      "shape":"String",
      "documentation":"<p>Entitlement data value.</p>"
    },
    "Unit":{
      "shape":"EntitlementDataUnit",
      "documentation":"<p>Entitlement data unit.</p>"
    }
  },
  "documentation":"<p>Data associated with an entitlement resource.</p>"
},
"EntitlementDataList":{
  "type":"list",
  "member":{"shape":"EntitlementData"}
},
"EntitlementDataUnit":{
   "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementList":{
  "type":"list",
```

```
  "member":{"shape":"Entitlement"}
},
"EntitlementNotAllowedException":{
  "type":"structure",
  "members":{
    "Message":{"shape":"Message"}
  },
  "documentation":"<p>The entitlement is not allowed.</p>",
  "exception":true
},
"EntitlementUnit":{

  "type":"string",
  "enum":[
    "Count",
    "None",
    "Seconds",
    "Microseconds",
    "Milliseconds",
    "Bytes",
    "Kilobytes",
    "Megabytes",
    "Gigabytes",
    "Terabytes",
    "Bits",
    "Kilobits",
    "Megabits",
    "Gigabits",
    "Terabits",
    "Percent",
    "Bytes/Second",
    "Kilobytes/Second",
    "Megabytes/Second",
    "Gigabytes/Second",
    "Terabytes/Second",
    "Bits/Second",
    "Kilobits/Second",
    "Megabits/Second",
    "Gigabits/Second",
    "Terabits/Second",
    "Count/Second"
  ]
},
"EntitlementUsage":{
  "type":"structure",
  "required":[
    "Name",
    "ConsumedValue",
```

"Unit"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Entitlement usage name. "
},
"ConsumedValue":{
"shape":"String",
"documentation":" Resource usage consumed. "
},
"MaxCount":{
"shape":"String",
"documentation":" Maximum entitlement usage count. "
},
"Unit":{
"shape":"EntitlementDataUnit",
"documentation":" Entitlement usage unit. "
}
},
"documentation":" Usage associated with an entitlement resource. "
},
"EntitlementUsageList":{
"type":"list",
"member":{"shape":"EntitlementUsage"}
},
"ExtendLicenseConsumptionRequest":{
"type":"structure",
"required":["LicenseConsumptionToken"],
"members":{
"LicenseConsumptionToken":{
"shape":"String",
"documentation":" License consumption token. "
},
"DryRun":{
"shape":"Boolean",
"documentation":" Checks whether you have the required permissions for the action, without actually making the request. Provides an error response if you do not have the required permissions. "
}
}
},
"ExtendLicenseConsumptionResponse":{
"type":"structure",
"members":{
"LicenseConsumptionToken":{
"shape":"String",

"documentation":" License consumption token. "
},
"Expiration":{
"shape":"ISO8601DateTime",
"documentation":" Date and time at which the license consumption expires. "
}
}
},
"FailedDependencyException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"},
"ErrorCode":{"shape":"String"}
},
"documentation":" A dependency required to run the API is missing. ",
"exception":true
},
"Filter":{
"type":"structure",
"members":{
"Name":{
"shape":"FilterName",
"documentation":" Name of the filter. Filter names are case-sensitive. "
},
"Values":{
"shape":"FilterValues",
"documentation":" The
value of the filter, which is case-sensitive. You can only specify one value for the filter. "
}
},
"documentation":" A filter name and value pair that is used to return more specific results from a describe
operation. Filters can be used to match a set of resources by specific criteria, such as tags, attributes, or IDs. "
},
"FilterLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The request uses too many filters or too many filter values. ",
"exception":true
},
"FilterList":{
"type":"list",
"member":{"shape":"Filter"}
},
"FilterName":{"type":"string"},
"FilterValue":{"type":"string"},
"FilterValues":{

```
  "type":"list",
  "member":{"shape":"FilterValue"}
},
"Filters":{
  "type":"list",
  "member":{"shape":"Filter"}
},
"GetAccessTokenRequest":{
  "type":"structure",
   "required":["Token"],
  "members":{
    "Token":{
      "shape":"TokenString",
      "documentation":"<p>Refresh token, encoded as a JWT token.</p>"
    },
    "TokenProperties":{
      "shape":"MaxSize3StringList",
      "documentation":"<p>Token properties to validate against those present in the JWT token.</p>"
    }
  }
},
"GetAccessTokenResponse":{
  "type":"structure",
  "members":{
    "AccessToken":{
      "shape":"TokenString",
      "documentation":"<p>Temporary access token.</p>"
    }
  }
},
"GetGrantRequest":{
  "type":"structure",
  "required":["GrantArn"],
  "members":{
    "GrantArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the grant.</p>"
    },
    "Version":{
      "shape":"String",
      "documentation":"<p>Grant version.</p>"
    }
  }
},
"GetGrantResponse":{
  "type":"structure",
   "members":{
    "Grant":{
```

"shape":"Grant",
"documentation":" Grant details. "
}
}
},
"GetLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
}
}
},
"GetLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationId":{
"shape":"String",
"documentation":" Unique ID for the license configuration. "
},
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",
"documentation":" Dimension for which the licenses are counted. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" License rules. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of available licenses. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",

"documentation":" Sets the number of available licenses as a hard limit. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses assigned to resources. "
},
"Status":{
"shape":"String",
"documentation":" License configuration status. "
},
"OwnerAccountId":{

"shape":"String",
"documentation":" Account ID of the owner of the license configuration. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries of the licenses consumed by resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries of the managed resources. "
},
"Tags":{
"shape":"TagList",
"documentation":" Tags for the license configuration. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
"shape":"AutomatedDiscoveryInformation",
"documentation":" Automated discovery information. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",

"documentation":" When true, disassociates a resource when software is uninstalled. "
}
}
},
"GetLicenseConversionTaskRequest":{
"type":"structure",
"required":["LicenseConversionTaskId"],
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",

"documentation":" ID of the license type conversion task to retrieve information on. "
}
}
},
"GetLicenseConversionTaskResponse":{
"type":"structure",
"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" ID of the license type conversion task. "
},
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Names (ARN) of the resources the license conversion task is associated with. "
},
"SourceLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information about the license type converted from. "
},
"DestinationLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information about the license type converted to. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for the conversion task. "
},
"Status":{
"shape":"LicenseConversionTaskStatus",
"documentation":" Status of the license type conversion task. "
},
"StartTime":{
"shape":"DateTime",
"documentation":" Time at which the license type conversion task was started . "
},
"LicenseConversionTime":{
"shape":"DateTime",
"documentation":" Amount of time to complete the license type conversion. "
},
"EndTime":{
"shape":"DateTime",
"documentation":" Time at which the license type conversion task was completed. "
}
}
},

"GetLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":["LicenseManagerReportGeneratorArn"],
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the report generator. "
}
}
},
"GetLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{
"ReportGenerator":{
"shape":"ReportGenerator",
"documentation":" A report generator that creates periodic reports about your license configurations. "
}
}
},
"GetLicenseRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"Version":{
"shape":"String",
"documentation":" License
version. "
}
}
},
"GetLicenseResponse":{
"type":"structure",
"members":{
"License":{
"shape":"License",
"documentation":" License details. "
}
}
},
"GetLicenseUsageRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{

"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
}
}
},
"GetLicenseUsageResponse":{
"type":"structure",
"members":{
"LicenseUsage":{
"shape":"LicenseUsage",
"documentation":" License usage details. "
}
}
},
"GetServiceSettingsRequest":{
"type":"structure",
"members":{}
},
"GetServiceSettingsResponse":{
"type":"structure",
"members":{
"S3BucketArn":{
"shape":"String",
"documentation":" Regional S3 bucket path for storing
reports, license trail event data, discovery data, and so on. "
},
"SnsTopicArn":{
"shape":"String",
"documentation":" SNS topic configured to receive notifications from License Manager. "
},
"OrganizationConfiguration":{
"shape":"OrganizationConfiguration",
"documentation":" Indicates whether Organizations is integrated with License Manager for cross-account
discovery. "
},
"EnableCrossAccountsDiscovery":{
"shape":"BoxBoolean",
"documentation":" Indicates whether cross-account discovery is enabled. "
},
"LicenseManagerResourceShareArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource share. The License Manager
management account provides member accounts with access to this share. "
}
}
},
"Grant":{
"type":"structure",

"required":[
"GrantArn",
"GrantName",
"ParentArn",
"LicenseArn",
"GranteePrincipalArn",
"HomeRegion",
"GrantStatus",
"Version",
"GrantedOperations"
],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
},
"GrantName":{
"shape":"String",
"documentation":" Grant name. "
},
"ParentArn":{
"shape":"Arn",
"documentation":" Parent ARN. "
},
"LicenseArn":{
"shape":"Arn",
"documentation":" License ARN. "
},
"GranteePrincipalArn":{
"shape":"Arn",
"documentation":" The grantee principal ARN. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the grant. "
},
"GrantStatus":{
"shape":"GrantStatus",
"documentation":" Grant
status. "
},
"StatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Grant status reason. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "

```
    },
    "GrantedOperations":{
      "shape":"AllowedOperationList",
      "documentation":"<p>Granted operations.</p>"
    },
    "Options":{
      "shape":"Options",
      "documentation":"<p>The options specified for the grant.</p>"
    }
  },
  "documentation":"<p>Describes a grant.</p>"
},
"GrantList":{
  "type":"list",
  "member":{"shape":"Grant"}
},
"GrantStatus":{
  "type":"string",
  "enum":[
    "PENDING_WORKFLOW",
    "PENDING_ACCEPT",
    "REJECTED",
    "ACTIVE",
    "FAILED_WORKFLOW",
    "DELETED",
    "PENDING_DELETE",
    "DISABLED",
    "WORKFLOW_COMPLETED"
  ]
},
"GrantedLicense":{
   "type":"structure",
  "members":{
    "LicenseArn":{
      "shape":"Arn",
      "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "LicenseName":{
      "shape":"String",
      "documentation":"<p>License name.</p>"
    },
    "ProductName":{
      "shape":"String",
      "documentation":"<p>Product name.</p>"
    },
    "ProductSKU":{
      "shape":"String",
      "documentation":"<p>Product SKU.</p>"
```

},
"Issuer":{
"shape":"IssuerDetails",
"documentation":" Granted license issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the granted license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" Granted license status. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time
range during which the granted license is valid, in ISO8601-UTC format. "
},
"Beneficiary":{
"shape":"String",
"documentation":" Granted license beneficiary. "
},
"Entitlements":{
"shape":"EntitlementList",
"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" Granted license metadata. "
},
"CreateTime":{
"shape":"ISO8601DateTime",
"documentation":" Creation time of the granted license. "
},
"Version":{
"shape":"String",
"documentation":" Version of the granted license. "
},
"ReceivedMetadata":{
"shape":"ReceivedMetadata",

"documentation":" Granted license received metadata. "
}
},

"documentation":" Describes a license that is granted to a grantee. "
},
"GrantedLicenseList":{
"type":"list",
"member":{"shape":"GrantedLicense"}
},
"ISO8601DateTime":{
"type":"string",
"max":50,
"pattern":"^(-?(?:[1-9][0-9]*)?[0-9]{4})-(1[0-2]|0[1-9])-(3[0-1]|0[1-9]|[1-2][0-9])T(2[0-3]|[0-1][0-9]):([0-5][0-9]):([0-5][0-9])(\\.[0-9]+)?(Z|[+-](?:2[0-3]|[0-1][0-9]):[0-5][0-9])+$"
},
"Integer":{"type":"integer"},
"InvalidParameterValueException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" One or more parameter values are not valid. ",
"exception":true,
"synthetic":true
},
"InvalidResourceStateException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" License Manager cannot allocate
a license to a resource because of its state. For example, you cannot allocate a license to an instance in the process of shutting down. ",
"exception":true
},
"InventoryFilter":{
"type":"structure",
"required":[
"Name",
"Condition"
],
"members":{
"Name":{
"shape":"String",
"documentation":" Name of the filter. "
},
"Condition":{
"shape":"InventoryFilterCondition",
"documentation":" Condition of the filter. "
},
"Value":{

"shape":"String",
"documentation":" Value of the filter. "
}
},
"documentation":" An inventory filter. "
},
"InventoryFilterCondition":{
"type":"string",
"enum":[
"EQUALS",
"NOT_EQUALS",
"BEGINS_WITH",
"CONTAINS"
]
},
"InventoryFilterList":{
"type":"list",
"member":{"shape":"InventoryFilter"}
},
"Issuer":{
"type":"structure",
"required":["Name"],
"members":{
"Name":{
"shape":"String",
"documentation":" Issuer name. "
},
"SignKey":{
"shape":"String",
"documentation":" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. "
}
},
"documentation":" Details about the issuer of a license. "
},
"IssuerDetails":{
"type":"structure",
"members":{
"Name":{
"shape":"String",
"documentation":" Issuer name. "
},
"SignKey":{
"shape":"String",
"documentation":" Asymmetric KMS key from Key Management Service. The KMS key must have a key usage of sign and verify, and support the RSASSA-PSS SHA-256 signing algorithm. "
},
"KeyFingerprint":{

"shape":"String",
"documentation":" Issuer key fingerprint. "
}
},
"documentation":" Details associated with the issuer of a license. "
},
"License":{
"type":"structure",
"members":{
"LicenseArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"LicenseName":{
"shape":"String",
"documentation":" License name. "
},
"ProductName":{
"shape":"String",
"documentation":" Product name. "
},
"ProductSKU":{
"shape":"String",
"documentation":" Product SKU. "
},
"Issuer":{
"shape":"IssuerDetails",
"documentation":" License issuer. "
},
"HomeRegion":{
"shape":"String",
"documentation":" Home Region of the license. "
},
"Status":{
"shape":"LicenseStatus",
"documentation":" License status. "
},
"Validity":{
"shape":"DatetimeRange",
"documentation":" Date and time range during which the license is valid, in ISO8601-UTC format. "
},
"Beneficiary":{
"shape":"String",
"documentation":" License beneficiary. "
},
"Entitlements":{
"shape":"EntitlementList",

"documentation":" License entitlements. "
},
"ConsumptionConfiguration":{
"shape":"ConsumptionConfiguration",
"documentation":" Configuration for consumption of the license. "
},
"LicenseMetadata":{
"shape":"MetadataList",
"documentation":" License metadata. "
},
"CreateTime":{
"shape":"ISO8601DateTime",
"documentation":" License creation time. "
},
"Version":{
"shape":"String",
"documentation":" License
version. "
}
},
"documentation":" Software license that is managed in License Manager. "
},
"LicenseConfiguration":{
"type":"structure",
"members":{
"LicenseConfigurationId":{
"shape":"String",
"documentation":" Unique ID of the license configuration. "
},
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"Name":{
"shape":"String",
"documentation":" Name of the license configuration. "
},
"Description":{
"shape":"String",
"documentation":" Description of the license configuration. "
},
"LicenseCountingType":{
"shape":"LicenseCountingType",
"documentation":" Dimension to use to track the license inventory. "
},
"LicenseRules":{
"shape":"StringList",

"documentation":" License rules. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" Number of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" Number of available licenses as a hard limit. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed. "
},
"Status":{
"shape":"String",
"documentation":" Status of the license configuration. "
},
"OwnerAccountId":{
"shape":"String",
"documentation":" Account ID of the license configuration's owner. "
},
"ConsumedLicenseSummaryList":{
"shape":"ConsumedLicenseSummaryList",
"documentation":" Summaries for licenses consumed by various resources. "
},
"ManagedResourceSummaryList":{
"shape":"ManagedResourceSummaryList",
"documentation":" Summaries for managed resources. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" Product information. "
},
"AutomatedDiscoveryInformation":{
"shape":"AutomatedDiscoveryInformation",
"documentation":" Automated discovery information. "
}
},
"documentation":" A license configuration is an abstraction of a customer license agreement that can be consumed and enforced by License Manager. Components include specifications for the license type (licensing by instance, socket, CPU, or vCPU), allowed tenancy (shared tenancy, Dedicated Instance, Dedicated Host, or all of these), host affinity (how long a VM must be associated with a host), and the number of licenses purchased and used. "

```
  },
  "LicenseConfigurationAssociation":{
    "type":"structure",
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
      },
      "ResourceType":{
        "shape":"ResourceType",
        "documentation":"<p>Type of server resource.</p>"
      },
      "ResourceOwnerId":{
        "shape":"String",
        "documentation":"<p>ID of the Amazon Web Services account that owns the resource consuming
licenses.</p>"
      },
      "AssociationTime":{
        "shape":"DateTime",
        "documentation":"<p>Time when the license configuration was associated with the resource.</p>"
      },
      "AmiAssociationScope":{
        "shape":"String",
        "documentation":"<p>Scope of AMI associations. The possible value is <code>cross-account</code>.</p>"
       }
    },
    "documentation":"<p>Describes an association with a license configuration.</p>"
  },
  "LicenseConfigurationAssociations":{
    "type":"list",
    "member":{"shape":"LicenseConfigurationAssociation"}
  },
  "LicenseConfigurationStatus":{
    "type":"string",
    "enum":[
      "AVAILABLE",
      "DISABLED"
    ]
  },
  "LicenseConfigurationUsage":{
    "type":"structure",
    "members":{
      "ResourceArn":{
        "shape":"String",
        "documentation":"<p>Amazon Resource Name (ARN) of the resource.</p>"
      },
      "ResourceType":{
        "shape":"ResourceType",
```

"documentation":" Type of resource. "
},
"ResourceStatus":{
"shape":"String",
"documentation":" Status of the resource. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the account that owns the resource. "
},
"AssociationTime":{
"shape":"DateTime",
"documentation":" Time when the license configuration was initially associated with the resource. "
},
"ConsumedLicenses":{
"shape":"BoxLong",
"documentation":" Number of licenses consumed by the resource. "
}
},
"documentation":" Details about the usage of a resource associated with a license configuration. "
},
"LicenseConfigurationUsageList":{
"type":"list",
"member":{"shape":"LicenseConfigurationUsage"}
},
"LicenseConfigurations":{
"type":"list",
"member":{"shape":"LicenseConfiguration"}
},
"LicenseConversionContext":{
"type":"structure",
"members":{
"UsageOperation":{
"shape":"UsageOperation",
"documentation":" The Usage operation value that corresponds to the license type you are converting your resource from. For more information about which platforms correspond
to which usage operation values see Sample data: usage operation by platform "
},
"ProductCodes":{
"shape":"ProductCodeList",
"documentation":" Product codes referred to in the license conversion process. "
}
},
"documentation":" Information about a license type conversion task. "
},
"LicenseConversionTask":{
"type":"structure",

"members":{
"LicenseConversionTaskId":{
"shape":"LicenseConversionTaskId",
"documentation":" The ID of the license type conversion task. "
},
"ResourceArn":{
"shape":"String",
"documentation":" The Amazon Resource Name (ARN) of the resource associated with the license type conversion task. "
},
"SourceLicenseContext":{
"shape":"LicenseConversionContext",

"documentation":" Information about the license type this conversion task converted from. "
},
"DestinationLicenseContext":{
"shape":"LicenseConversionContext",
"documentation":" Information about the license type this conversion task converted to. "
},
"Status":{
"shape":"LicenseConversionTaskStatus",
"documentation":" The status of the conversion task. "
},
"StatusMessage":{
"shape":"String",
"documentation":" The status message for the conversion task. "
},
"StartTime":{
"shape":"DateTime",
"documentation":" The time the conversion task was started at. "
},
"LicenseConversionTime":{
"shape":"DateTime",
"documentation":" The time the usage operation value of the resource was changed. "
},
"EndTime":{
"shape":"DateTime",
"documentation":" The time the conversion task was completed. "
}
},
"documentation":" Information about a license type conversion task. "
},
"LicenseConversionTaskId":{
"type":"string",
"max":50,
"pattern":"^lct-[a-zA-Z0-9]*"
},

"LicenseConversionTaskStatus":{
  "type":"string",
  "enum":[
    "IN_PROGRESS",
    "SUCCEEDED",
    "FAILED"
  ]
},
"LicenseConversionTasks":{
  "type":"list",
  "member":{"shape":"LicenseConversionTask"}
},
"LicenseCountingType":{
  "type":"string",
  "enum":[
    "vCPU",
    "Instance",
    "Core",
    "Socket"
  ]
},
"LicenseDeletionStatus":{
  "type":"string",
  "enum":[
    "PENDING_DELETE",
    "DELETED"
  ]
},
"LicenseList":{
  "type":"list",
  "member":{"shape":"License"}
},
"LicenseOperationFailure":{
  "type":"structure",
  "members":{
    "ResourceArn":{
      "shape":"String",
       "documentation":" Amazon Resource Name (ARN) of the resource. "
    },
    "ResourceType":{
      "shape":"ResourceType",
      "documentation":" Resource type. "
    },
    "ErrorMessage":{
      "shape":"String",
      "documentation":" Error message. "
    },
    "FailureTime":{

"shape":"DateTime",
"documentation":" Failure time. "
},
"OperationName":{
"shape":"String",
"documentation":" Name of the operation. "
},
"ResourceOwnerId":{
"shape":"String",
"documentation":" ID of the Amazon Web Services account that owns the resource. "
},
"OperationRequestedBy":{
"shape":"String",
"documentation":" The requester is \"License Manager Automated Discovery\". "
},
"MetadataList":{
"shape":"MetadataList",
"documentation":" Reserved. "
}
},
"documentation":" Describes the failure of a license operation. "
},
"LicenseOperationFailureList":{
"type":"list",
"member":{"shape":"LicenseOperationFailure"}
},
"LicenseSpecification":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"AmiAssociationScope":{
"shape":"String",
"documentation":" Scope of AMI associations. The possible value is <code>cross-account</code>. "
}
},
"documentation":" Details for associating a license configuration with a resource. "
},
"LicenseSpecifications":{
"type":"list",
"member":{"shape":"LicenseSpecification"}
},
"LicenseStatus":{
"type":"string",
"enum":[

"AVAILABLE",

"PENDING_AVAILABLE",
"DEACTIVATED",
"SUSPENDED",
"EXPIRED",
"PENDING_DELETE",
"DELETED"
]
},
"LicenseUsage":{
"type":"structure",
"members":{
"EntitlementUsages":{
"shape":"EntitlementUsageList",
"documentation":" License entitlement usages. "
}
},
"documentation":" Describes the entitlement usage associated with a license. "
},
"LicenseUsageException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" You do not have enough licenses available to support a new resource launch. ",
"exception":true
},
"ListAssociationsForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of a license
configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListAssociationsForLicenseConfigurationResponse":{

"type":"structure",
"members":{
"LicenseConfigurationAssociations":{
"shape":"LicenseConfigurationAssociations",
"documentation":" Information about the associations for the license configuration. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListDistributedGrantsRequest":{
"type":"structure",
"members":{
"GrantArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the grants. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranteePrincipalARN</code>   <code>ProductSKU</code>   <code>LicenseIssuerName</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListDistributedGrantsResponse":{
"type":"structure",
"members":{
"Grants":{
"shape":"GrantList",
"documentation":" Distributed grant details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token
for the next set of results. "
}

```
  }
},
"ListFailuresForLicenseConfigurationOperationsRequest":{
  "type":"structure",
  "required":["LicenseConfigurationArn"],
  "members":{
    "LicenseConfigurationArn":{
      "shape":"String",
      "documentation":"<p>Amazon Resource Name of the license configuration.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListFailuresForLicenseConfigurationOperationsResponse":{
  "type":"structure",
  "members":{
    "LicenseOperationFailureList":{
      "shape":"LicenseOperationFailureList",
      "documentation":"<p>License configuration operations that failed.</p>"
    },
    "NextToken":{

  "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseConfigurationsRequest":{
  "type":"structure",
  "members":{
    "LicenseConfigurationArns":{
      "shape":"StringList",
      "documentation":"<p>Amazon Resource Names (ARN) of the license configurations.</p>"
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
```

},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>licenseCountingType</code> - The dimension for which licenses are counted. Possible values are <code>vCPU</code> | <code>Instance</code> | <code>Core</code> | <code>Socket</code>.   <code>enforceLicenseCount</code> - A Boolean value that indicates whether hard license enforcement is used.   <code>usagelimitExceeded</code> - A Boolean value that indicates whether the available licenses have been exceeded. "
}
}
},
"ListLicenseConfigurationsResponse":{
"type":"structure",
"members":{
"LicenseConfigurations":{
"shape":"LicenseConfigurations",
"documentation":" Information about the license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseConversionTasksRequest":{
"type":"structure",
"members":{
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. Valid filters are <code>ResourceArns</code> and <code>Status</code>. "
}
}
},
"ListLicenseConversionTasksResponse":{
"type":"structure",
"members":{
"LicenseConversionTasks":{
"shape":"LicenseConversionTasks",

"documentation":" Information about the license configuration tasks for your account. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseManagerReportGeneratorsRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>LicenseConfigurationArn</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicenseManagerReportGeneratorsResponse":{
"type":"structure",
"members":{
"ReportGenerators":{
"shape":"ReportGeneratorList",
"documentation":" A report generator that creates periodic reports about your license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{
"shape":"String",

"documentation":" Amazon Resource Name (ARN) of a resource that has an associated license configuration. "

```
    },
    "MaxResults":{
      "shape":"BoxInteger",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseSpecificationsForResourceResponse":{
  "type":"structure",
  "members":{
    "LicenseSpecifications":{
      "shape":"LicenseSpecifications",
      "documentation":"<p>License configurations associated with a resource.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    }
  }
},
"ListLicenseVersionsRequest":{
  "type":"structure",
  "required":["LicenseArn"],
  "members":{
    "LicenseArn":{
      "shape":"Arn",
       "documentation":"<p>Amazon Resource Name (ARN) of the license.</p>"
    },
    "NextToken":{
      "shape":"String",
      "documentation":"<p>Token for the next set of results.</p>"
    },
    "MaxResults":{
      "shape":"MaxSize100",
      "documentation":"<p>Maximum number of results to return in a single call.</p>"
    }
  }
},
"ListLicenseVersionsResponse":{
  "type":"structure",
  "members":{
    "Licenses":{
      "shape":"LicenseList",
      "documentation":"<p>License details.</p>"
```

},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the licenses. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>Beneficiary</code>   <code>ProductSKU</code>   <code>Fingerprint</code>   <code>Status</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"LicenseList",
"documentation":" License details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedGrantsForOrganizationRequest":{
"type":"structure",
"required":["LicenseArn"],
"members":{
"LicenseArn":{

"shape":"Arn",
"documentation":" The Amazon Resource Name (ARN) of the received license. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>ParentArn</code>   <code>GranteePrincipalArn</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedGrantsForOrganizationResponse":{
"type":"structure",
"members":{
"Grants":{
"shape":"GrantList",
"documentation":" Lists the grants the organization has received. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedGrantsRequest":{
"type":"structure",
"members":{
"GrantArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the grants. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>LicenseIssuerName</code>   <code>LicenseArn</code>   <code>GrantStatus</code>   <code>GranterAccountId</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "

},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum
number of results to return in a single call. "
}
}
},
"ListReceivedGrantsResponse":{
"type":"structure",
"members":{
"Grants":{
"shape":"GrantList",
"documentation":" Received grant details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedLicensesForOrganizationRequest":{
"type":"structure",
"members":{
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul>
<code>Beneficiary</code>   <code>ProductSKU</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum
number of results to return in a single call. "
}
}
},
"ListReceivedLicensesForOrganizationResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"GrantedLicenseList",
"documentation":" Lists the licenses the organization has received. "
},
"NextToken":{

"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListReceivedLicensesRequest":{
"type":"structure",
"members":{
"LicenseArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARNs) of the licenses. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filters are supported: <ul> <code>ProductSKU</code>   <code>Status</code>   <code>Fingerprint</code>   <code>IssuerName</code>   <code>Beneficiary</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum number of results to return in a single call. "
}
}
},
"ListReceivedLicensesResponse":{
"type":"structure",
"members":{
"Licenses":{
"shape":"GrantedLicenseList",
"documentation":" Received license details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListResourceInventoryRequest":{
"type":"structure",
"members":{
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "

},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"Filters":{
"shape":"InventoryFilterList",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>account_id</code> - The ID of the Amazon Web Services account that owns the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>application_name</code> - The name of the application. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>license_included</code> - The type of license included. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>. Possible values are <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   <code>platform</code> - The platform of the resource. Logical operators are <code>EQUALS</code> | <code>BEGINS_WITH</code>.   <code>resource_id</code> - The ID of the resource. Logical operators are <code>EQUALS</code> | <code>NOT_EQUALS</code>.   <code>tag:<key></code> - The key/value combination of a tag assigned to the resource. Logical operators are <code>EQUALS</code> (single account) or <code>EQUALS</code> | <code>NOT_EQUALS</code> (cross account). "
}
}
},
"ListResourceInventoryResponse":{
"type":"structure",
"members":{
"ResourceInventoryList":{
"shape":"ResourceInventoryList",
"documentation":" Information about the resources. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListTagsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
}
}
},
"ListTagsForResourceResponse":{

"type":"structure",
"members":{
"Tags":{
"shape":"TagList",
"documentation":" Information about the tags. "
}
}
},
"ListTokensRequest":{
"type":"structure",
"members":{
"TokenIds":{
"shape":"StringList",
"documentation":" Token IDs. "
},
"Filters":{
"shape":"FilterList",
"documentation":" Filters to scope the results. The following filter is supported: <ul>
<code>LicenseArns</code> "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"MaxResults":{
"shape":"MaxSize100",
"documentation":" Maximum
number of results to return in a single call. "
}
}
},
"ListTokensResponse":{
"type":"structure",
"members":{
"Tokens":{
"shape":"TokenList",
"documentation":" Received token details. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"ListUsageForLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{

"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"MaxResults":{
"shape":"BoxInteger",
"documentation":" Maximum number of results to return in a single call. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
},
"Filters":{
"shape":"Filters",
"documentation":" Filters to scope the results. The following filters and logical operators are supported: <ul> <code>resourceArn</code> - The ARN of the license configuration resource.   <code>resourceType</code> - The resource type (<code>EC2_INSTANCE</code> | <code>EC2_HOST</code> | <code>EC2_AMI</code> | <code>SYSTEMS_MANAGER_MANAGED_INSTANCE</code>).   <code>resourceAccount</code> - The ID of the account that owns the resource. "
}
}
},
"ListUsageForLicenseConfigurationResponse":{
"type":"structure",
"members":{
"LicenseConfigurationUsageList":{
"shape":"LicenseConfigurationUsageList",
"documentation":" Information about the license configurations. "
},
"NextToken":{
"shape":"String",
"documentation":" Token for the next set of results. "
}
}
},
"Location":{"type":"string"},
"Long":{"type":"long"},
"ManagedResourceSummary":{
"type":"structure",
"members":{
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource associated with a license. "
},
"AssociationCount":{
"shape":"BoxLong",
"documentation":" Number of resources associated with licenses. "

}
},
"documentation":" Summary information about a managed resource. "
},
"ManagedResourceSummaryList":{
"type":"list",
"member":{"shape":"ManagedResourceSummary"}
},
"MaxSize100":{
"type":"integer",
"max":100,
"min":1
},
"MaxSize3StringList":{
"type":"list",
"member":{"shape":"String"},
"max":3
},
"Message":{"type":"string"},
"Metadata":{
"type":"structure",
"members":{
"Name":{
"shape":"String",

"documentation":" The key name. "
},
"Value":{
"shape":"String",
"documentation":" The value. "
}
},
"documentation":" Describes key/value pairs. "
},
"MetadataList":{
"type":"list",
"member":{"shape":"Metadata"}
},
"NoEntitlementsAllowedException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" There are no entitlements found for this license, or the entitlement maximum count is reached. ",
"exception":true
},
"Options":{

"type":"structure",
"members":{
"ActivationOverrideBehavior":{
"shape":"ActivationOverrideBehavior",
"documentation":" An activation option for your grant that determines the behavior of activating a grant. Activation options can only be used with granted licenses sourced from the Amazon Web Services Marketplace. Additionally, the operation
must specify the value of <code>ACTIVE</code> for the <code>Status</code> parameter.   As a license administrator, you can optionally specify an <code>ActivationOverrideBehavior</code> when activating a grant.   As a grantor, you can optionally specify an <code>ActivationOverrideBehavior</code> when you activate a grant for a grantee account in your organization.   As a grantee, if the grantor creating the distributed grant doesnt specify an <code>ActivationOverrideBehavior</code>, you can optionally specify one when you are activating the grant.   <dl> <dt>DISTRIBUTED_GRANTS_ONLY</dt> <dd> Use this value to activate a grant without replacing any member accounts active grants for the same product. </dd> <dt>ALL_GRANTS_PERMITTED_BY_ISSUER</dt> <dd> Use this value to activate a grant and disable other active grants in any member accounts for the same product. This action will also replace their previously activated grants
with this activated grant. </dd> </dl>"
}
},
"documentation":" The options you can specify when you create a new version of a grant, such as activation override behavior. For more information, see Granted licenses in License Manager in the License Manager User Guide. "
},
"OrganizationConfiguration":{
"type":"structure",
"required":["EnableIntegration"],
"members":{
"EnableIntegration":{
"shape":"Boolean",
"documentation":" Enables Organizations integration. "
}
},
"documentation":" Configuration information for Organizations. "
},
"PrincipalArnList":{
"type":"list",
"member":{"shape":"Arn"},
"max":1,
"min":1
},
"ProductCodeId":{
"type":"string",
"pattern":"^[A-Za-z0-9]{1,25}$"
},
"ProductCodeList":{

"type":"list",
"member":{"shape":"ProductCodeListItem"}
},
"ProductCodeListItem":{
"type":"structure",
"required":[
"ProductCodeId",
"ProductCodeType"
],
"members":{
"ProductCodeId":{
"shape":"ProductCodeId",
"documentation":" The product code ID "
},
"ProductCodeType":{
"shape":"ProductCodeType",
"documentation":" The product code type "
}
},
"documentation":" A list item that contains a product code. "
},
"ProductCodeType":{
"type":"string",
"enum":["marketplace"]
},
"ProductInformation":{
"type":"structure",
"required":[
"ResourceType",
"ProductInformationFilterList"
],
"members":{
"ResourceType":{
"shape":"String",
"documentation":" Resource type. The possible values are <code>SSM_MANAGED</code> | <code>RDS</code>. "
},

"ProductInformationFilterList":{
"shape":"ProductInformationFilterList",
"documentation":" A Product information filter consists of a <code>ProductInformationFilterComparator</code> which is a logical operator, a <code>ProductInformationFilterName</code> which specifies the type of filter being declared, and a <code>ProductInformationFilterValue</code> that specifies the value to filter on. Accepted values for <code>ProductInformationFilterName</code> are listed here along with descriptions and valid options for <code>ProductInformationFilterComparator</code>. The following filters and are supported when the resource type is <code>SSM_MANAGED</code>: <ul> <code>Application Name</code> - The name of the application. Logical operator is <code>EQUALS</code>.   <code>Application

Publisher</code> - The publisher of the application. Logical operator is <code>EQUALS</code>.   <code>Application Version</code>
 - The version of the application. Logical operator is <code>EQUALS</code>.   <code>Platform Name</code> - The name of the platform. Logical operator is <code>EQUALS</code>.   <code>Platform Type</code> - The platform type. Logical operator is <code>EQUALS</code>.   <code>Tag:key</code> - The key of a tag attached to an Amazon Web Services resource you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>. The key for your tag must be appended to <code>Tag:</code> following the example: <code>Tag:name-of-your-key</code>. <code>ProductInformationFilterValue</code> is optional if you are not using values for the key.   <code>AccountId</code> - The 12-digit ID of an Amazon Web Services account you wish to exclude from automated discovery. Logical operator is <code>NOT_EQUALS</code>.   <code>License Included</code> - The type of license included. Logical operators are <code>EQUALS</code>
 and <code>NOT_EQUALS</code>. Possible values are: <code>sql-server-enterprise</code> | <code>sql-server-standard</code> | <code>sql-server-web</code> | <code>windows-server-datacenter</code>.   The following filters and logical operators are supported when the resource type is <code>RDS</code>: <ul> <code>Engine Edition</code> - The edition of the database engine. Logical operator is <code>EQUALS</code>. Possible values are: <code>oracle-ee</code> | <code>oracle-se</code> | <code>oracle-se1</code> | <code>oracle-se2</code> | <code>db2-se</code> | <code>db2-ae</code>.   <code>License Pack</code> - The license pack. Logical operator is <code>EQUALS</code>. Possible values are: <code>data guard</code> | <code>diagnostic pack sqlt</code> | <code>tuning pack sqlt</code> | <code>ols</code> | <code>olap</code>. "
      }
    },
    "documentation":" Describes product information for a license configuration. "
  },
  "ProductInformationFilter":{
    "type":"structure",
    "required":[
      "ProductInformationFilterName",
      "ProductInformationFilterComparator"
    ],
    "members":{
      "ProductInformationFilterName":{
        "shape":"String",
        "documentation":" Filter name. "
      },
      "ProductInformationFilterValue":{
        "shape":"StringList",
        "documentation":" Filter value. "
      },
      "ProductInformationFilterComparator":{
        "shape":"String",
        "documentation":" Logical operator. "
      }
    },
    "documentation":" Describes product information filters. "
  },
  "ProductInformationFilterList":{

"type":"list",
"member":{"shape":"ProductInformationFilter"}
},
"ProductInformationList":{
"type":"list",
"member":{"shape":"ProductInformation"}
},
"ProvisionalConfiguration":{
"type":"structure",
"required":["MaxTimeToLiveInMinutes"],
"members":{
"MaxTimeToLiveInMinutes":{
"shape":"BoxInteger",
"documentation":" Maximum time for the provisional configuration, in minutes. "
}
},
"documentation":" Details about a provisional configuration. "
},
"RateLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" Too many requests have been submitted. Try again after a brief wait. ",
"exception":true
},
"ReceivedMetadata":{
"type":"structure",
"members":{
"ReceivedStatus":{
"shape":"ReceivedStatus",
"documentation":" Received status. "
},
"ReceivedStatusReason":{
"shape":"StatusReasonMessage",
"documentation":" Received status reason. "
},
"AllowedOperations":{
"shape":"AllowedOperationList",
"documentation":" Allowed
operations. "
}
},
"documentation":" Metadata associated with received licenses and grants. "
},
"ReceivedStatus":{
"type":"string",
"enum":[

"PENDING_WORKFLOW",
"PENDING_ACCEPT",
"REJECTED",
"ACTIVE",
"FAILED_WORKFLOW",
"DELETED",
"DISABLED",
"WORKFLOW_COMPLETED"
]
},
"RedirectException":{
"type":"structure",
"members":{
"Location":{"shape":"Location"},
"Message":{"shape":"Message"}
},
"documentation":" This is not the correct Region for the resource. Try again. ",
"exception":true
},
"RejectGrantRequest":{
"type":"structure",
"required":["GrantArn"],
"members":{
"GrantArn":{
"shape":"Arn",
"documentation":" Amazon Resource Name (ARN) of the grant. "
}
}
},
"RejectGrantResponse":{
"type":"structure",
"members":{

"GrantArn":{
"shape":"Arn",
"documentation":" Grant ARN. "
},
"Status":{
"shape":"GrantStatus",
"documentation":" Grant status. "
},
"Version":{
"shape":"String",
"documentation":" Grant version. "
}
}
},
"RenewType":{

"type":"string",
"enum":[
"None",
"Weekly",
"Monthly"
]
},
"ReportContext":{
"type":"structure",
"required":["licenseConfigurationArns"],
"members":{
"licenseConfigurationArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Name (ARN) of the license configuration that this generator reports on. "
}
},
"documentation":" Details of the license configuration that this generator reports on. "
},
"ReportFrequency":{
"type":"structure",
"members":{
"value":{
"shape":"Integer",
"documentation":" Number of times within the frequency period that a report is generated. The only supported value is <code>1</code>. "
},
"period":{
"shape":"ReportFrequencyType",
"documentation":" Time period between each report. The period can be daily, weekly, or monthly. "
}
},
"documentation":" Details about how frequently reports are generated. "
},
"ReportFrequencyType":{
"type":"string",
"enum":[
"DAY",
"WEEK",
"MONTH"
]
},
"ReportGenerator":{
"type":"structure",
"members":{
"ReportGeneratorName":{
"shape":"String",
"documentation":" Name of the report generator. "

},
"ReportType":{
"shape":"ReportTypeList",
"documentation":" Type of reports that are generated. "
},
"ReportContext":{
"shape":"ReportContext",
"documentation":" License
configuration type for this generator. "
},
"ReportFrequency":{
"shape":"ReportFrequency",
"documentation":" Details about how frequently reports are generated. "
},
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the report generator. "
},
"LastRunStatus":{
"shape":"String",
"documentation":" Status of the last report generation attempt. "
},
"LastRunFailureReason":{
"shape":"String",
"documentation":" Failure message for the last report generation attempt. "
},
"LastReportGenerationTime":{
"shape":"String",
"documentation":" Time the last report was generated at. "
},
"ReportCreatorAccount":{
"shape":"String",
"documentation":" The Amazon Web Services account ID used to create
the report generator. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
},
"S3Location":{
"shape":"S3Location",
"documentation":" Details of the S3 bucket that report generator reports are published to. "
},
"CreateTime":{
"shape":"String",
"documentation":" Time the report was created. "
},
"Tags":{

"shape":"TagList",
"documentation":" Tags associated with the report generator. "
}
},
"documentation":" Describe the details of a report generator. "
},
"ReportGeneratorList":{
"type":"list",
"member":{"shape":"ReportGenerator"}
},
"ReportGeneratorName":{
"type":"string",
"max":100,
"min":1
},
"ReportType":{
"type":"string",
"enum":[
"LicenseConfigurationSummaryReport",

"LicenseConfigurationUsageReport"
]
},
"ReportTypeList":{
"type":"list",
"member":{"shape":"ReportType"}
},
"ResourceInventory":{
"type":"structure",
"members":{
"ResourceId":{
"shape":"String",
"documentation":" ID of the resource. "
},
"ResourceType":{
"shape":"ResourceType",
"documentation":" Type of resource. "
},
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"Platform":{
"shape":"String",
"documentation":" Platform of the resource. "
},
"PlatformVersion":{
"shape":"String",

"documentation":" Platform version of the resource in the inventory. "
},
"ResourceOwningAccountId":{
"shape":"String",
"documentation":" ID of the account that owns the resource. "
}
},
"documentation":" Details about a resource. "
},
"ResourceInventoryList":{
"type":"list",
"member":{"shape":"ResourceInventory"}
},
"ResourceLimitExceededException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" Your resource limits have been exceeded. ",
"exception":true
},
"ResourceNotFoundException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The resource cannot be found. ",
"exception":true
},
"ResourceType":{
"type":"string",
"enum":[
"EC2_INSTANCE",
"EC2_HOST",
"EC2_AMI",
"RDS",
"SYSTEMS_MANAGER_MANAGED_INSTANCE"
]
},
"S3Location":{
"type":"structure",
"members":{
"bucket":{
"shape":"String",
"documentation":" Name of the S3 bucket reports
are published to. "
},
"keyPrefix":{

"shape":"String",
"documentation":" Prefix of the S3 bucket reports are published to. "
}
},
"documentation":" Details of the S3 bucket that report generator reports are published to. "
},
"ServerInternalException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The server experienced an internal error. Try again. ",
"exception":true,
"fault":true
},
"SignedToken":{
"type":"string",
"min":4096
},
"StatusReasonMessage":{
"type":"string",
"max":400,
"pattern":"[\\s\\S]+"
},
"String":{"type":"string"},
"StringList":{
"type":"list",
"member":{"shape":"String"}
},
"Tag":{
"type":"structure",
"members":{
"Key":{
"shape":"String",
"documentation":" The tag key. "

},
"Value":{
"shape":"String",
"documentation":" The tag value. "
}
},
"documentation":" Details about the tags for a resource. For more information about tagging support in License Manager, see the TagResource operation. "
},
"TagKeyList":{
"type":"list",

"member":{"shape":"String"}
},
"TagList":{
"type":"list",
"member":{"shape":"Tag"}
},
"TagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",
"Tags"
],
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. The following examples provide an example ARN for each supported resource in License Manager: <ul> Licenses - <code>arn:aws:license-manager::111122223333:license:l-EXAMPLE2da7646d6861033667f20e895</code>   Grants - <code>arn:aws:license-manager::111122223333:grant:g-EXAMPLE7b19f4a0ab73679b0beb52707</code>   License configurations - <code>arn:aws:license-manager:us-east-1:111122223333:license-configuration:lic-EXAMPLE6a788d4c8acd4264ff0ecf2ed2d</code>   Report generators - <code>arn:aws:license-manager:us-east-1:111122223333:report-generator:r-EXAMPLE825b4a4f8fe5a3e0c88824e5fc6</code> "
},
"Tags":{
"shape":"TagList",
"documentation":" One or more tags. "
}
}
},
"TagResourceResponse":{
"type":"structure",
"members":{}
},
"TokenData":{
"type":"structure",
"members":{
"TokenId":{
"shape":"String",
"documentation":" Token ID. "
},
"TokenType":{
"shape":"String",
"documentation":" Type of token generated. The supported value is <code>REFRESH_TOKEN</code>. "
},
"LicenseArn":{

"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license. "
},
"ExpirationTime":{
"shape":"ISO8601DateTime",
"documentation":" Token expiration time, in ISO8601-UTC format. "
},
"TokenProperties":{
"shape":"MaxSize3StringList",
"documentation":" Data specified by the caller. "
},
"RoleArns":{
"shape":"ArnList",
"documentation":" Amazon Resource Names (ARN) of the roles included in the token. "
},
"Status":{
"shape":"String",
"documentation":" Token status. The possible values are <code>AVAILABLE</code> and
<code>DELETED</code>. "
}
},
"documentation":" Describes a token. "
},
"TokenList":{
"type":"list",
"member":{"shape":"TokenData"}
},
"TokenString":{
"type":"string",
"max":4096,
"pattern":"\\S+"
},
"TokenType":{
"type":"string",
"enum":["REFRESH_TOKEN"]
},
"UnsupportedDigitalSignatureMethodException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The digital signature method is unsupported. Try your request again. ",
"exception":true
},
"UntagResourceRequest":{
"type":"structure",
"required":[
"ResourceArn",

"TagKeys"
],
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the resource. "
},
"TagKeys":{
"shape":"TagKeyList",
"documentation":" Keys identifying the tags to remove. "
}
}
},
"UntagResourceResponse":{
"type":"structure",
"members":{}
},
"UpdateLicenseConfigurationRequest":{
"type":"structure",
"required":["LicenseConfigurationArn"],
"members":{
"LicenseConfigurationArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the license configuration. "
},
"LicenseConfigurationStatus":{
"shape":"LicenseConfigurationStatus",
"documentation":" New status of the license configuration. "
},
"LicenseRules":{
"shape":"StringList",
"documentation":" New license rule. The only rule that you can add after you create a license configuration is licenseAffinityToHost. "
},
"LicenseCount":{
"shape":"BoxLong",
"documentation":" New number of licenses managed by the license configuration. "
},
"LicenseCountHardLimit":{
"shape":"BoxBoolean",
"documentation":" New hard limit of the number of available licenses. "
},
"Name":{
"shape":"String",
"documentation":" New name of the license configuration. "
},
"Description":{

"shape":"String",
"documentation":" New description of the license configuration. "
},
"ProductInformationList":{
"shape":"ProductInformationList",
"documentation":" New product information. "
},
"DisassociateWhenNotFound":{
"shape":"BoxBoolean",
"documentation":" When true, disassociates a resource when software is uninstalled. "
}
}
},
"UpdateLicenseConfigurationResponse":{
"type":"structure",
"members":{}
},
"UpdateLicenseManagerReportGeneratorRequest":{
"type":"structure",
"required":[
"LicenseManagerReportGeneratorArn",
"ReportGeneratorName",
"Type",
"ReportContext",
"ReportFrequency",
"ClientToken"
],
"members":{
"LicenseManagerReportGeneratorArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the report generator to update. "
},
"ReportGeneratorName":{
"shape":"ReportGeneratorName",
"documentation":" Name of the report generator. "
},
"Type":{
"shape":"ReportTypeList",
"documentation":" Type of reports to generate. The following report types are supported: <ul> License configuration report - Reports the number and details of consumed licenses for a license configuration.   Resource report - Reports the tracked licenses and resource consumption for a license configuration. "
},
"ReportContext":{
"shape":"ReportContext",
"documentation":" The report context. "
},
"ReportFrequency":{

"shape":"ReportFrequency",
"documentation":" Frequency by which reports are generated. "
},
"ClientToken":{
"shape":"ClientRequestToken",
"documentation":" Unique, case-sensitive identifier that you provide to ensure the idempotency of the request. "
},
"Description":{
"shape":"String",
"documentation":" Description of the report generator. "
}
}
},
"UpdateLicenseManagerReportGeneratorResponse":{
"type":"structure",
"members":{}
},
"UpdateLicenseSpecificationsForResourceRequest":{
"type":"structure",
"required":["ResourceArn"],
"members":{
"ResourceArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon Web Services resource. "
},
"AddLicenseSpecifications":{
"shape":"LicenseSpecifications",
"documentation":" ARNs of the license configurations to add. "
},
"RemoveLicenseSpecifications":{
"shape":"LicenseSpecifications",
"documentation":" ARNs of the license configurations to remove. "
}
}
},
"UpdateLicenseSpecificationsForResourceResponse":{
"type":"structure",
"members":{}
},
"UpdateServiceSettingsRequest":{
"type":"structure",
"members":{
"S3BucketArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon S3 bucket where the License Manager information is stored. "

},
"SnsTopicArn":{
"shape":"String",
"documentation":" Amazon Resource Name (ARN) of the Amazon SNS topic used for License Manager alerts. "
},
"OrganizationConfiguration":{
"shape":"OrganizationConfiguration",
"documentation":" Enables integration with Organizations for cross-account discovery. "
},
"EnableCrossAccountsDiscovery":{
"shape":"BoxBoolean",
"documentation":" Activates cross-account discovery. "
}
}
},
"UpdateServiceSettingsResponse":{
"type":"structure",
"members":{}
},
"UsageOperation":{
"type":"string",
"max":50
},
"ValidationException":{
"type":"structure",
"members":{
"Message":{"shape":"Message"}
},
"documentation":" The provided input is not valid. Try your request again. ",
"exception":true
}
},
"documentation":" License Manager makes it easier to manage licenses from software vendors across multiple Amazon Web Services accounts and on-premises servers. "
}
{
"version": "1.0",
"parameters": {
"Region": {
"builtIn": "AWS::Region",
"required": false,
"documentation": "The AWS region used to dispatch the request.",
"type": "string"
},
"UseDualStack": {
"builtIn": "AWS::UseDualStack",
"required": true,

"default": false,
"documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
"type": "boolean"
},
"UseFIPS": {
"builtIn": "AWS::UseFIPS",
"required": true,
"default": false,
"documentation": "When true, send this request to the FIPS-compliant regional endpoint. If the configured endpoint does not have a FIPS compliant endpoint, dispatching the request will return an error.",
"type": "boolean"
},
"Endpoint": {

"builtIn": "SDK::Endpoint",
"required": false,
"documentation": "Override the endpoint used to send this request",
"type": "string"
}
},
"rules": [
{
"conditions": [
{
"fn": "isSet",
"argv": [
{
"ref": "Endpoint"
}
]
}
],
"rules": [
{
"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseFIPS"
},
true
]
}
],
"error": "Invalid Configuration: FIPS and custom endpoint are not supported",

```
            "type": "error"
        },
        {
            "conditions": [
                {
                    "fn": "booleanEquals",
                    "argv": [
                        {
                            "ref": "UseDualStack"
                        },
                        true
                    ]
                }
            ],
            "error": "Invalid Configuration: Dualstack and custom endpoint are not supported",
            "type": "error"
        },
        {
            "conditions": [],
            "endpoint": {
                "url": {
                    "ref": "Endpoint"
                },
                "properties": {},
                "headers": {}
            },
            "type": "endpoint"
        }
    ],
    "type": "tree"
},
{
    "conditions": [
        {
            "fn": "isSet",
            "argv": [
                {
                    "ref": "Region"
                }
            ]
        }
    ],
    "rules": [
        {
            "conditions": [
                {
                    "fn": "aws.partition",
                    "argv": [
```

```
            {
                "ref": "Region"
            }
        ],
        "assign": "PartitionResult"
    }
],
"rules": [
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseFIPS"
                    },
                    true
                ]
            },
            {
                "fn": "booleanEquals",
                "argv": [
                    {
                        "ref": "UseDualStack"
                    },
                    true
                ]
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [

                    true,
                        {
                            "fn": "getAttr",
                            "argv": [
                                {
                                    "ref": "PartitionResult"
                                },
                                "supportsFIPS"
                            ]
                        }
                    ]
                },
```

```
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            true,
                            {

        "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsDualStack"
                                ]
                            }
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dualStackDnsSuffix}",

    "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ],
                "type": "tree"
            },
            {
                "conditions": [],
                "error": "FIPS and DualStack are enabled, but this partition does not support one or both",
                "type": "error"
            }
        ],
        "type": "tree"
    },
    {
        "conditions": [
            {
                "fn": "booleanEquals",
                "argv": [

        {
                        "ref": "UseFIPS"
```

```
                    },
                    true
                ]
            }
        ],
        "rules": [
            {
                "conditions": [
                    {
                        "fn": "booleanEquals",
                        "argv": [
                            {
                                "fn": "getAttr",
                                "argv": [
                                    {
                                        "ref": "PartitionResult"
                                    },
                                    "supportsFIPS"
                                ]
                            },
                            true
                        ]
                    }
                ],
                "rules": [
                    {
                        "conditions": [],
                        "endpoint": {
                            "url": "https://license-manager-user-subscriptions-
fips.{Region}.{PartitionResult#dnsSuffix}",
                            "properties": {},
                            "headers": {}
                        },
                        "type": "endpoint"
                    }
                ],

    "type": "tree"
            },
            {
                "conditions": [],
                "error": "FIPS is enabled but this partition does not support FIPS",
                "type": "error"
            }
        ],
        "type": "tree"
    },
    {
```

"conditions": [
{
"fn": "booleanEquals",
"argv": [
{
"ref": "UseDualStack"
},
true
]
}
],
"rules": [

{
"conditions": [
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{
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},
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]
}
]
}
],

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"properties": {},
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"type": "endpoint"
}
],
"type": "tree"
},
{
"conditions": [],

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            }
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          "type": "tree"
        }
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      "type": "tree"
    },
    {
      "conditions": [],
      "error": "Invalid Configuration: Missing Region",
      "type": "error"
    }
  ]
}
```


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{
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"waiters": {
}
}
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},
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"result_key": "LicenseServerEndpoints"
}
}
}

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{
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    "RequestId": "6a213e4e-33a8-11df-9540-99d0768312d3"
  }
}
{
  "version": "1.0",
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      "required": false,
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      "type": "string"
    },
    "UseDualStack": {
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      "required": true,
      "default": false,
      "documentation": "When true, use the dual-stack endpoint. If the configured endpoint does not support dual-stack, dispatching the request MAY return an error.",
      "type": "boolean"
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    "UseFIPS": {
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      "required": true,
      "default": false,
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      "type": "boolean"
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      "conditions": [
```

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    },
    {
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            true
          ]
        }
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      "type": "error"
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                }
            ]
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```

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"fn": "getAttr",
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                        "headers": {}
```

```
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"type": "tree"
},
{
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    {
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],
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                        "fn": "getAttr",
                        "argv": [
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                    true
                ]
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            {
```

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        "type": "tree"

},
        {
            "conditions": [],
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            "type": "error"
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    ],
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},
{
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        {
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                true
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        {

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                    {
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                        "argv": [
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```

```
                    }
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{
"conditions": [],
"error": "Invalid Configuration: Missing Region",
"type": "error"
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]
```

}

1.5755 boto3 1.40.59

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1.5763 luajit 2.1.1760488057

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1.5764 prometheus-operator-prometheus-operator 0.85.0

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1.5766 prometheus-community-prom-label-proxy 0.12.0

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Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in
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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge.
Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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1.5770 heimdal 2:4.19.5+dfsg-4ubuntu9.4

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@end macro

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@end macro

@macro copyrightend{}
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AES in
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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in
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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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kdc/announce.c

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DES core in libhcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
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lib/hcrypto/test_dh.c

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The development of Dynamically Loadable Zones

(DLZ) for Bind 9 was
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 * multiple-imports, not-iterable, not-a-mapping, various patches.
- Roy Williams <roy.williams.iii@gmail.com> (Lyft)
 * added check for implementing __eq__ without implementing __hash__,
```

* Added Python 3 check for accessing Exception.message.
* Added Python 3 check for calling encode/decode with invalid codecs.
* Added Python 3 check for accessing sys.maxint.
* Added Python 3 check for bad import statements.
* Added Python 3 check for accessing deprecated methods on the 'string' module,
  various patches.
- Florian Bruhin <me@the-compiler.org>
- Arianna Yang <areveny@protonmail.com>

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* wrong-spelling-in-comment
* wrong-spelling-in-docstring
* parallel execution on multiple CPUs
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- Sushobhit <31987769+sushobhit27@users.noreply.github.com> (sushobhit27)
* Added new check 'comparison-with-itself'.
* Added new check 'useless-import-alias'.
* Added support of annotations in missing-type-doc and missing-return-type-doc.
* Added new check 'comparison-with-callable'.
* Removed six package dependency.
* Added new check 'chained-comparison'.
* Added new check 'useless-object-inheritance'.
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* Port source code to be Python 2/3 compatible
* Python 3 checker
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CNES):
* misplaced-comparison-constant
* no-classmethod-decorator
* no-staticmethod-decorator
* too-many-nested-blocks,
* too-many-boolean-expressions
* unneeded-not
* wrong-import-order
* ungrouped-imports,
* wrong-import-position
* redefined-variable-type

- Harutaka Kawamura <hkawamura0130@gmail.com>
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- Zen Lee <53538590+zenlyj@users.noreply.github.com>
- Julien Cristau <julien.cristau@logilab.fr> (Logilab): python 3 support
- Moiss Lpez <6644187+moylop260@users.noreply.github.com>:
 * Support for deprecated-modules in modules not installed,
 * Refactor wrong-import-order to integrate it with `isort` library
 * Add check too-complex with mccabe for cyclomatic complexity
 * Refactor wrong-import-position to skip try-import and nested cases
 * Add consider-merging-isinstance, superfluous-else-return
 * Fix consider-using-ternary
 for 'True and True and True or True' case
 * Add bad-docstring-quotes and docstring-first-line-empty
 * Add missing-timeout
 * Fix false negative for `deprecated-module` when a `__import__` method is used instead of `import` sentence
- Adrien Di Mascio <Adrien.DiMascio@logilab.fr>
- Frank Harrison <frank@doublethefish.com> (doublethefish)
- Pierre-Yves David <pierre-yves.david@logilab.fr>
- David Shea <dshea@redhat.com>: invalid sequence and slice index
- Gunung P. Wibisono <55311527+gunungpw@users.noreply.github.com>
- Derek Gustafson <degustaf@gmail.com>
- Cezar Elnazli <cezar.elnazli2@gmail.com>: deprecated-method
- Joseph Young <80432516+jpy-git@users.noreply.github.com> (jpy-git)
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- orSolocate <38433858+orSolocate@users.noreply.github.com>
-
 Radu Ciorba <radu@devrandom.ro>: not-context-manager and confusing-with-statement warnings.
- Holger Peters <email@holger-peters.de>
- Cosmin Poiean <cmin@ropython.org>: unichr-builtin and improvements to bad-open-mode.
- Yilei "Dolee" Yang <yileiyang@google.com>
- Steven Myint <hg@stevenmyint.com>: duplicate-except.
- Peter Kolbus <peter.kolbus@gmail.com> (Garmin)
- Luigi Bertaco Cristofolini <lucristofolini@gmail.com> (luigibertaco)
- Glenn Matthews <glenn@e-dad.net>:
 * autogenerated documentation for optional extensions,
 * bug fixes and enhancements for docparams (ne check_docs) extension
- crazybolillo <antonio@zoftko.com>
- correctmost <134317971+correctmost@users.noreply.github.com>
- Vlad Temian <vladtemian@gmail.com>: redundant-unittest-assert and the JSON reporter.
- Julien Jehannet <julien.jehannet@logilab.fr>
- Boris Feld <lothiraldan@gmail.com>
- Anthony Sottile <asottile@umich.edu>
- Andrew Haigh <nelfin@gmail.com> (nelfin)

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- Hugo van Kemenade <hugovk@users.noreply.github.com>
- David Liu <david@cs.toronto.edu> (david-yz-liu)
- Dan Goldsmith <djgoldsmith@googlemail.com>: support for msg-template in HTML reporter.
- Buck Evan <buck.2019@gmail.com>
- Mariatta Wijaya <Mariatta@users.noreply.github.com>
 * Added new check `logging-fstring-interpolation`
 * Documentation typo fixes
- Jakub Wilk <jwilk@jwilk.net>
- Eli Fine <ejfine@gmail.com> (eli88fine): Fixed false positive duplicate code warning for lines with symbols only
- mile Crater <emile@crater.logilab.fr>
- Pavel Roskin <proski@gnu.org>
- David Gilman <davidgilman1@gmail.com>
- <hira9603859504@gmail.com>
- Thomas Hisch <t.hisch@gmail.com>
- Marianna Polatoglou <mpolatoglou@bloomberg.net>: minor contribution for wildcard import check
- Manuel Vzquez Acosta <mva.led@gmail.com>
- Luis Escobar <lescobar@vauxoo.com> (Vauxoo): Add bad-docstring-quotes
 and docstring-first-line-empty
- Lucas Cimon <lucas.cimon@gmail.com>
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- Ethan Leba <ethanleba5@gmail.com>
- Enji Cooper <yaneurabeya@gmail.com>
- Drum Ogilvie <me@daogilvie.com>
- David Lindquist <dlindquist@google.com>: logging-format-interpolation warning.
- Daniel Harding <dharding@gmail.com>
- Anthony Truchet <anthony.truchet@logilab.fr>
- Alexander Todorov <atodorov@otb.bg>:
 * added new error conditions to 'bad-super-call',
 * Added new check for incorrect len(SEQUENCE) usage,
 * Added new extension for comparison against empty string constants,
 * Added new extension which detects comparing integers to zero,
 * Added new useless-return checker,
 * Added new try-except-raise checker
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- Jakub Kuczys <me@jacken.men>
- Hornwitser <github@hornwitser.no>: fix import graph
- Fureigh <rhys.fureigh@gsa.gov>
- David Douard <david.douard@sdfa3.org>
- Daniel Balparda <balparda@google.com> (Google): GPyLint maintainer (Google's pylint variant)
- Christian Clauss <cclauss@me.com>
- Bastien Vallet <bastien.vallet@gmail.com> (Djailla)
- Aru Sahni <arusahni@gmail.com>: Git ignoring, regex-based ignores
- Andreas Freimuth <andreas.freimuth@united-bits.de>: fix indentation checking with tabs
- Alexandru Coman <fcoman@bitdefender.com>
- jpkotta <jpkotta@gmail.com>
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- Sergey B Kirpichev <skirpichev@gmail.com>
- Sandro Tosi <sandro.tosi@gmail.com>: Debian
 packaging
- Rogdham <contact@rogdham.net>
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- Paul Lichtenberger <paul.lichtenberger.rgbg@gmail.com>
- Or Bahari <or.ba402@gmail.com>
- Mr. Senko <atodorov@mrsenko.com>
- Mike Frysinger <vapier@gmail.com>
- Martin von Gagern <gagern@google.com> (Google): Added 'raising-format-tuple' warning.
- Martin Vielsmaier <martin@vielsmaier.net>
- Martin Pool <mbp@google.com> (Google):
 * warnings for anomalous backslashes
 * symbolic names for messages (like 'unused')
 * etc.
- Martin Bati <MartinBasti@users.noreply.github.com>
 * Added new check for shallow copy of os.environ
 * Added new check for useless `with threading.Lock():` statement
- Marcus Nslund <naslundx@gmail.com> (naslundx)
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 Benjamin Drung <benjamin.drung@profitbricks.com>: contributing Debian Developer
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- Pieter Engelbrecht <pengelbrecht@rems2.com>
- Philipp Albrecht <flying-sheep@web.de> (pylbrecht)
- Nicolas Dickreuter <dickreuter@gmail.com>
-
 Nick Bastin <nick.bastin@gmail.com>
- Nathaniel Manista <nathaniel@google.com>: suspicious lambda checking
- Maksym Humetskyi <Humetsky@gmail.com> (mhumetskyi)
 * Fixed ignored empty functions by similarities checker with "ignore-signatures" option enabled
 * Ignore function decorators signatures as well by similarities checker with "ignore-signatures" option enabled
 * Ignore class methods and nested functions signatures as well by similarities checker with "ignore-signatures" option enabled
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- Joshua Cannon <joshdcannon@gmail.com>
- John Leach <jfleach@jfleach.com>
- James Morgensen <james.morgensen@gmail.com>: ignored-modules option applies to import errors.
- Jaehoon Hwang <jaehoonhwang@users.noreply.github.com> (jaehoonhwang)
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- Frost Ming <frostming@tencent.com>
- Federico Bond <federicobond@gmail.com>
- Erik Wright <erik.wright@shopify.com>
- Erik Eriksson <molobrakos@users.noreply.github.com>: Added overlapping-except error check.
- Emmanuel Ferdman <emmanuelferdman@gmail.com>
- Dave Bunten <dave.bunten@cuanschutz.edu>
- Daniel Wang <danielwang405@gmail.com>
- Daniel Mouritzen <dmrtzn@gmail.com>
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- Chris Rebert <code@rebertia.com>: unidiomatic-typecheck.
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- Wing Lian <wing.lian@gmail.com>
- Wes Turner <westurner@google.com> (Google): added new check 'inconsistent-quotes'
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- Matthew Beckers <17108752+mattlbeck@users.noreply.github.com> (mattlbeck)
- Mark Roman Miller <mtmiller@users.noreply.github.com>: fix inline defs in too-many-statements
- MalanB <malan.kmu@gmail.com>
- Mads Kiilerich <mads@kiilerich.com>
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- Jens H. Nielsen <Jens.Nielsen@microsoft.com>
- Jake Lishman <jake.lishman@ibm.com>
- Ioana Tagirta <ioana.tagirta@gmail.com>: fix bad thread instantiation check

- Ikraduya
 Edian <ikraduya@gmail.com>: Added new checks 'consider-using-generator' and 'use-a-generator'.
- Hugues Bruant <hugues.bruant@affirm.com>
- Hashem Nasarat <Hnasar@users.noreply.github.com>
- Harut <yes@harutune.name>
- Grygorii Iermolenko <gyermolenko@gmail.com>
- Grizzly Nyo <grizzly.nyo@gmail.com>
- Gabriel R. Sezefredo <g@briel.dev>: Fixed "exception-escape" false positive with generators
- Filipe Brandenburger <filbranden@google.com>
- Fantix King <fantix@uchicago.edu> (UChicago)
- Eric McDonald <221418+emcd@users.noreply.github.com>
- Elias Dorneles <eliasdorneles@gmail.com>: minor adjust to config defaults and docs
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 * Fixed issue 5281, added Unicode checker
 * Improve non-ascii-name checker
- Bruce Dawson <randomascii@users.noreply.github.com>
- Brian Shaginaw <brian.shaginaw@warbyparker.com>: prevent error on exception check for functions
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- Zeb Nicholls <zebedee.nicholls@climate-energy-college.org>
 * Made W9011 compatible with 'of' syntax in return types
- Yuval Langer <yuvallanger@mail.tau.ac.il>
- Yury Gribov <tetra2005@gmail.com>
- Yuri Bochkarev <baltazar.bz@gmail.com>: Added epytext support to docparams extension.
- Youngsoo Sung <ysung@bepro11.com>
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 Yory <39745367+yory8@users.noreply.github.com>
- Yoichi Nakayama <yoichi.nakayama@gmail.com>
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- Winston H <56998716+winstxnhdw@users.noreply.github.com>
- Will Shanks <wsha@posteo.net>
- Viorel tirbu <viorels@gmail.com>: intern-builtin warning.
- VictorT <victor.taix@gmail.com>
- Victor Jiajunsu <16359131+jiajunsu@users.noreply.github.com>
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- Trevor Bekolay <tbekolay@gmail.com>
 * Added --list-msgs-enabled command
- Tomer Chachamu <tomer.chachamu@gmail.com>: simplifiable-if-expression
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- Theodore Ni <3806110+tjni@users.noreply.github.com>
- Tanvi Moharir <74228962+tanvimoharir@users.noreply.github.com>: Fix for invalid toml config
- T.Rzepka <Tobias.Rzepka@gmail.com>
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- Ramon Saraiva <ramonsaraiva@gmail.com>
- Ramiro Leal-Cavazos <ramiroleal050@gmail.com> (ramiro050): Fixed bug preventing pylint from working with Emacs tramp
- RSTdefg <34202999+RSTdefg@users.noreply.github.com>
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 Qwiddle13 <32040075+Qwiddle13@users.noreply.github.com>
- Quentin Young <qlyoung@users.noreply.github.com>
- Prajwal Borkar <sunnyborkar7777@gmail.com>
- Petr Pulc <petrpulc@gmail.com>: require whitespace around annotations
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 * Fix false positive 'Non-iterable value' with async comprehensions.
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- Moody <mooodyhunter@outlook.com>
- Mitchell Young <mitchelly@gmail.com>: minor adjustment to docparams
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